DENON

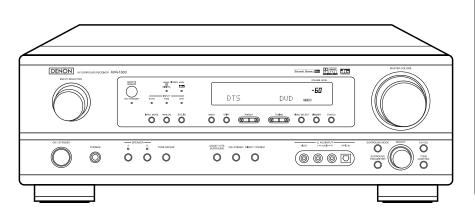
For U.S.A., Canada, Europe, U.K., Australia, Asia, China, Hong Kong, Taiwan R.O.C. & Korea model

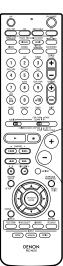
Hi-Fi Component

SERVICE MANUAL

MODEL AVR-1603/683

AV SURROUND RECEIVER





• Some illustrations using in this service manual are slightly different from the actual set.

DENON, Ltd.

16-11, YUSHIMA 3-CHOME, BUNKYOU-KU, TOKYO 113-0034 JAPAN Telephone: 03 (3837) 5321

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

Audio Section

Power Amplifier

Rated output: Front: 80W+80W (8Ω/ohms, 20Hz~20kHz with 0.08% T.H.D) (U.S.A., & Canada Models)

70W+70W (8 Ω /ohms, 20Hz~20kHz with 0.08% T.H.D) (Europe, U.K., Australia & Asia) 110W+110W (6 Ω /ohms, 1kHz with 0.7% T.H.D) (U.S.A., & Canada Models) 100W+100W (6 Ω /ohms, 1kHz with 0.7% T.H.D) (Europe, U.K. & Australia Models)

110W+110W (6Ω/ohms, EIAJ) (Asia Model)

Center: 80W (8Ω/ohms, 20Hz~20kHz with 0.08% T.H.D.) (U.S.A., & Canada Models)

70W (8 Ω /ohms, 20Hz~20kHz with 0.08% T.H.D.) (Europe, U.K. & Australia & Asia) 110W (6 Ω /ohms, 1kHz with 0.7% T.H.D.) (U.S.A., & Canada Models)

110W (6Ω /ohms, 1kHz with 0.7% T.H.D.) (U.S.A., & Canada Models) 100W (6Ω /ohms, 1kHz with 0.7% T.H.D.) (Europe, U.K. & Australia Models)

110W (6Ω/ohms, EIAJ) (Asia Model)

Surround: 80W+80W (8 Ω /ohms, 20Hz~20kHz with 0.08% T.H.D) (U.S.A., & Canada Models)

70W+70W (8 Ω /ohms, 20Hz~20kHz with 0.08% T.H.D) (Europe, U.K. & Australia & Asia) 110W+110W (6 Ω /ohms, 1kHz with 0.7% T.H.D) (U.S.A., & Canada Models)

100W+100W (6 Ω /ohms, 1kHz with 0.7% T.H.D.) (Europe, U.K. & Australia Models)

110W+110W (6 Ω /ohms, EIAJ) (Asia Model)

Output terminals: Front: A or B 6 to 16Ω /ohms

A+B 12 to 16Ω /ohms Center/Surround: 6 to 16Ω /ohms

LINE input - SPEAKER OUT

Input sensitivity/input impedance: $200 \text{mV}/47 \text{k}\Omega/\text{kohms}$

Frequency response: 10Hz~100kHz: +1, -3dB (TONE DEFEAT ON)
S/N ratio: 98dB (IHF-A weighted) (TONE DEFEAT ON)

■ Video Section

Standard video jacks

Input/output level and impedance: $1Vp-p,75\Omega/ohms$ Frequency response: $5Hz\sim10MHz-+1,-3dB$

S-video jacks

Input/output level and impedance: Y(brightness)signal — 1Vp-p, 75Ω /ohms

C(color)signal — 0.286Vp-p, 75Ω /ohms

Frequency response: 5Hz~10MHz: — +1, -3dB

Color component video jacks (U.S.A. & Canada Models)

Input/output level and impedance: Y(brightness)signal — 1Vp-p, 75Ω/ohms

PB/CB(blue)signal — 0.7Vp-p, 75 Ω /ohms PR/CR(red)signal — 0.7Vp-p, 75 Ω /ohms

Frequency response: 5Hz~27MHz: — +0, -3dB

Tuner section

Receiving range: [FM] (note: μ V at 75 Ω /ohms, 0dBf =1×10⁻¹⁵W)

U.S.A., & Canada Models: 87.50MHz~107.90MHz
Europe U.K. & Australia Models: 87.50MHz~108.00MHz

Asia Model: 87.50MHz~107.90MHz (0.2MHz steps)

87.50MHz~108.00MHz (0.05MHz steps)

Usable sensitivity: $1.0\mu V (11.2dBf)$

50 dB quieting sensitivity: MONO 1.6 μ V (15.3dBf) STEREO 23 μ V (38.5dBf)

S/N ratio: MONO 80dB (IHF-A weighted) STEREO 75dB (IHF-A weighted)

Total harmonic distortion: MONO 0.15% (1kHz) STEREO 0.3% (1kHz)

[AM]

520kHz~1710kHz 522kHz~1611kHz

520kHz~1710kHz (10kHz steps) 522kHz~1611kHz (9kHz steps)

18μV

■ General

Power supply: AC120V, 60Hz (U.S.A. & Canada Models)

AC230V, 50Hz (Europe, U.K. & Australia Models)

AC115/230V, 50/60Hz (Asia Model)

Power consumption: 4.0A (USA & Canada model)

210W (Europe, U.K., Australia & Asia models)

Maximum external dimensions: 434 (W) \times 147 (H) \times 417 (D) mm (17-3/32" \times 5-25/32" \times 1-23/64")

Mass: 10.4kg (22 lbs 14.9 oz)

■ Remote control unit (RC-920)

Batteries: R6P/AA Type (two batteries)

External dimensions: 55 (W) \times 225 (H) \times 34.5 (D) mm (2-11/64" \times 8-55/64" \times 1-9/64")

Mass: 165g (Approx. 5.8 oz) (including batteries)

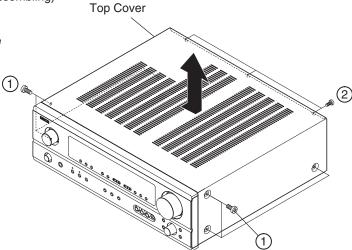
^{*} For purposes of improvement, specifications and design are subject to change without notice.

DISASSEMBLY

(Follow the procedure below in the reverse order when reassembling)

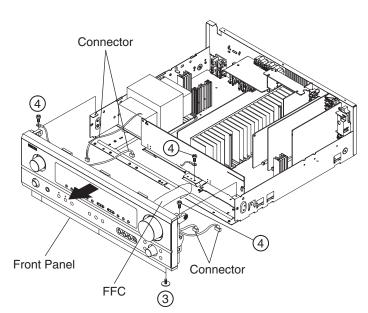
1. Top Cover

Remove 6 screws 1 and 3 screws 2, then detach the Top Cover to the arrow direction.



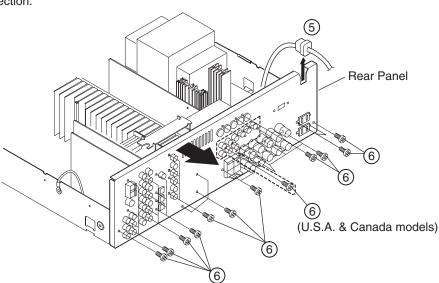
2. Front Panel

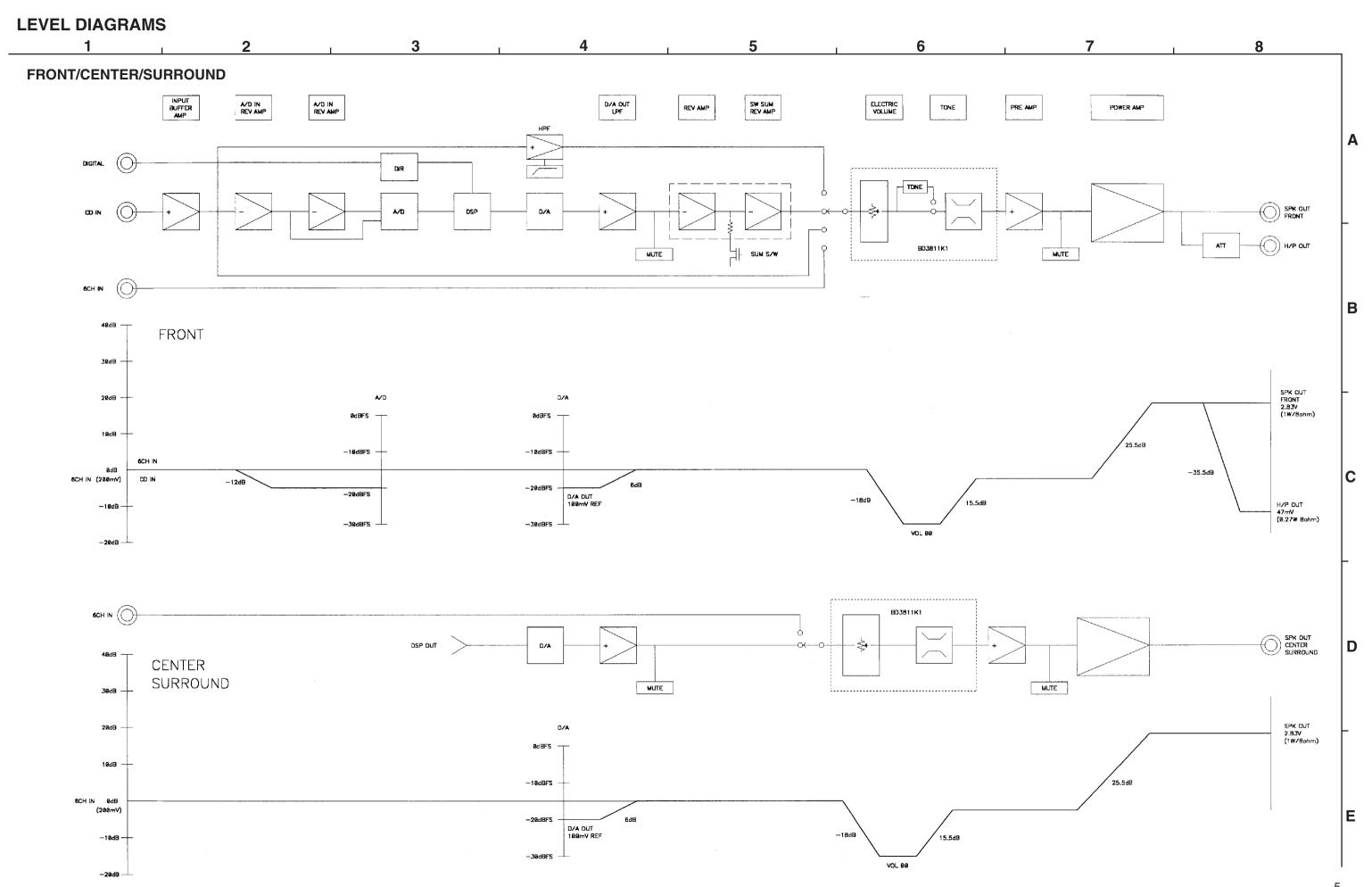
- (1) Remove 4 screws (3) and 3 screws (4).
- (2) Disconnect 3 connectors and FFC coming from the Front Panel side.
- (3) Disconnect the connector coming from the Trans., and detach the Front Panel to the arrow direction.

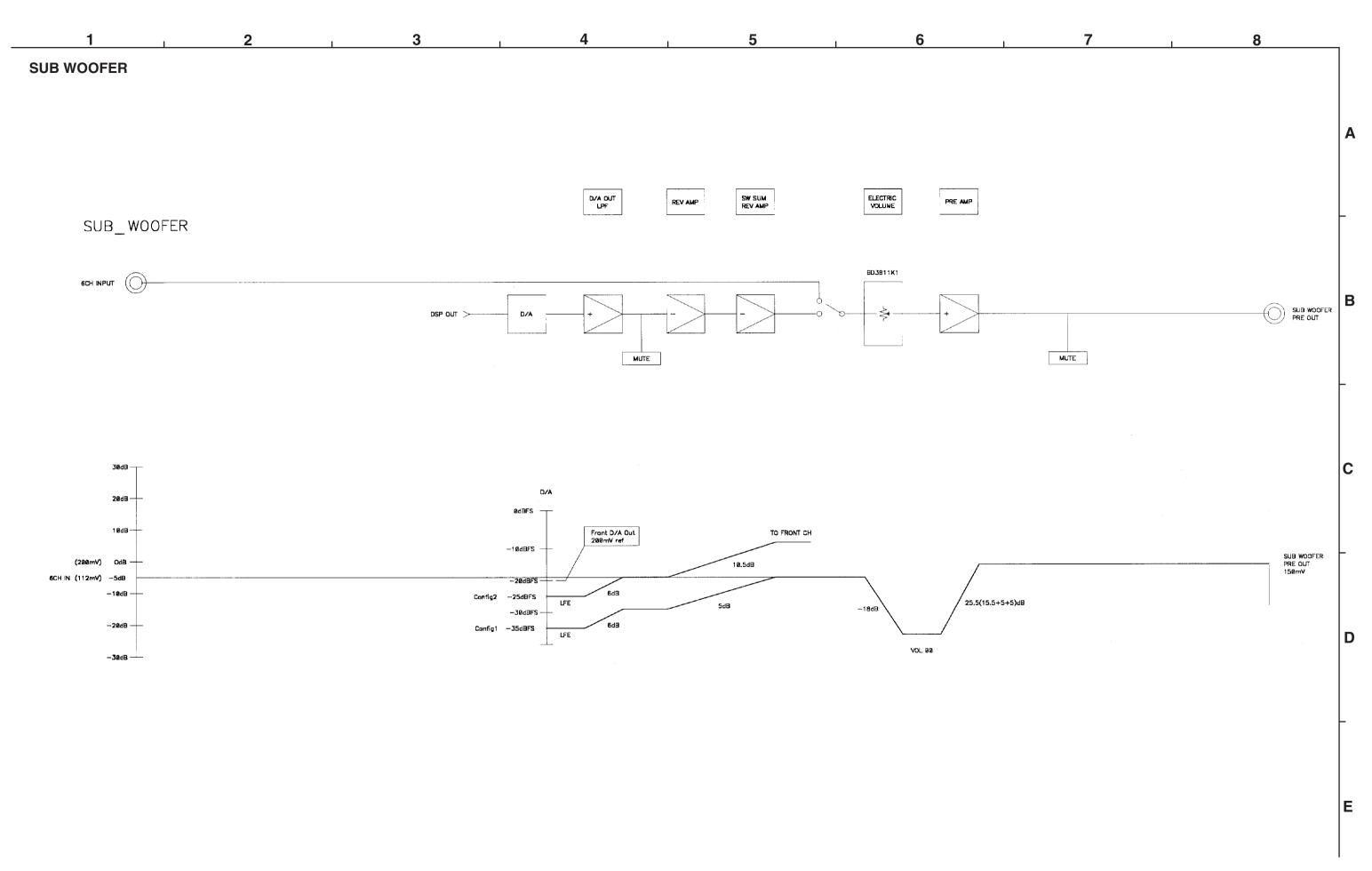


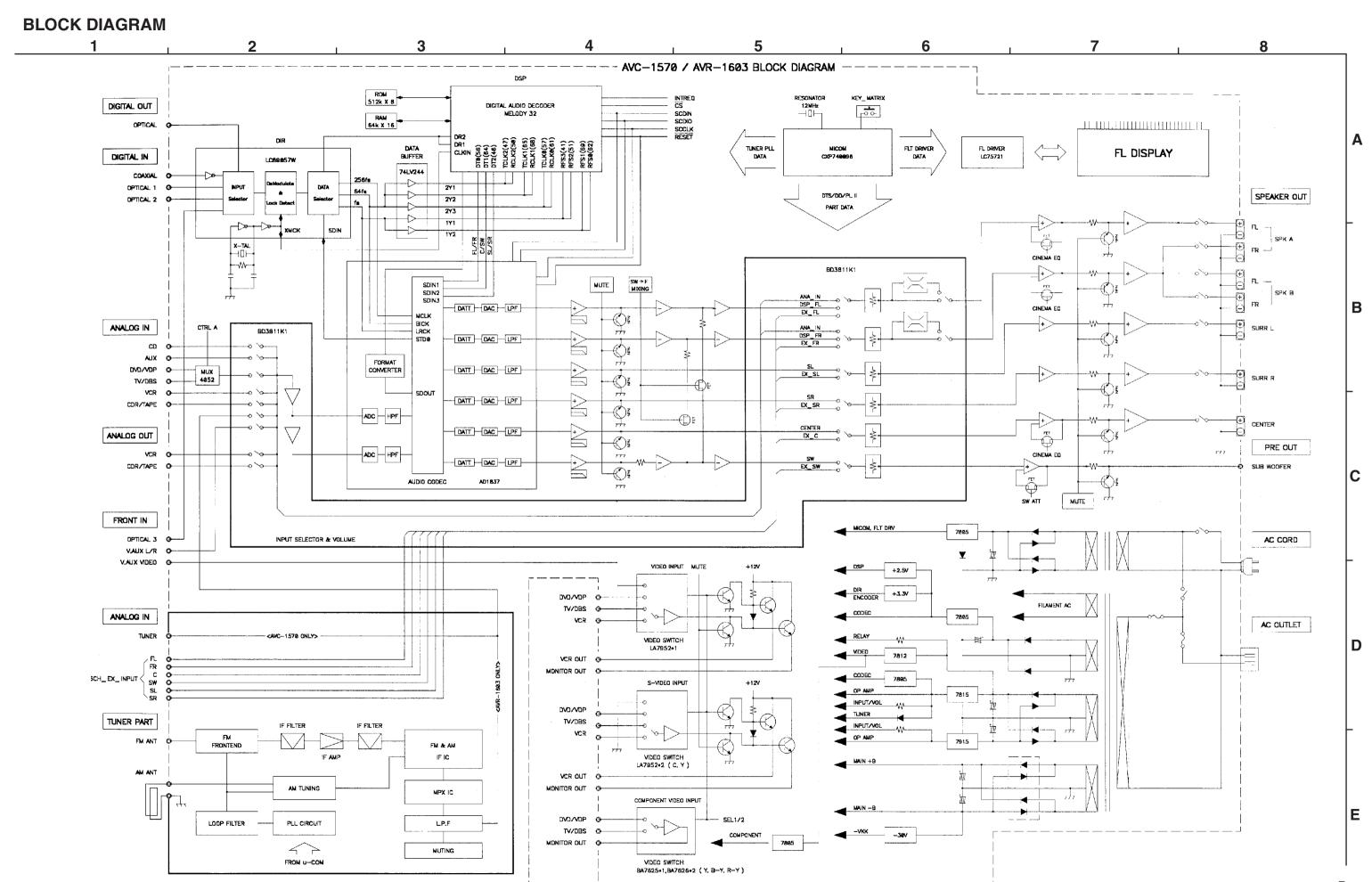
3. Rear Panel

- (1) Take off the AC cord (5).
- (2) Remove 32 screws (6) (36 pieces for U.S.A. & Canada models).
- (3) Detach the Rear Panel to the arrow direction.







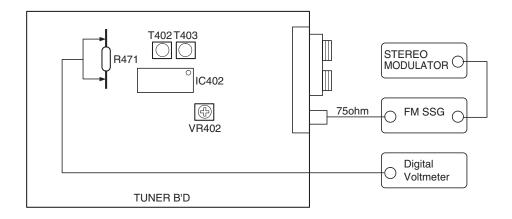


ADJUSTMENT

Tuner Section

CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

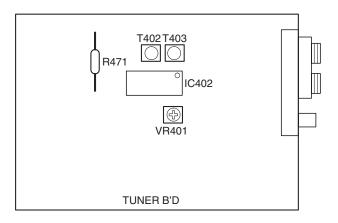
FM



FM ALIGNMENT

	" ALIGINIER!										
	Alignment	Tuning			Input		Output		Adjustment		
Step	Alignment Item	Frequency Setting	Туре	Frequency	Input Level	Modulation	Coupling	Туре	Connect to	Points	Adjust to
1	Center Adjustment	98.1MHz (98.0MHz)	FM SSG	98.1MHz	60dBμ	Mono 1kHz 100%	Antenna Terminal	Digital Voltmeter	R471	T402	± 50mV
2	Distortion	98.1MHz (98.0MHz)	FM SSG 98.1MHz		60dBμ	Mono 1kHz 100%	Antenna Terminal	Distortion Meter	Output Terminal (L)	T403	Minimum Distortion
3	Repeat Steps 1 and 2										
4	Signal Level	98.1MHz (98.0MHz)	FM SSG	98.1MHz	20dBμ	OFF	Antenna Terminal	0	JNED" on isplay	VR402	20 ⁺¹⁴ ₋₁₀ dB

AM



AM ALIGNMENT

Step	Alignment	Fraguanay	lanut	Ou	tput	А	djustment	Domorko
Step	Item	Frequency	Input	Туре	Connect to	Points	Adjust to	Remarks
1	Signal Level	999 (1000) kHz	AM SSG	_	_	VR401	Light "TUNED" on FL Display	SSG OUTPUT 74dBμ (EMF)

Audio Section

Idling Current

Required measurement equipment : DC Voltmeter

Preparation

- (1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room tempereture $15 \,^{\circ}\text{C} \sim 30 \,^{\circ}\text{C}$ (59 $^{\circ}\text{F} \sim 86 \,^{\circ}\text{F}$).
- (2) Presetting
 - POWER (Power sourse switch) → OFF
 - SPEAKER (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

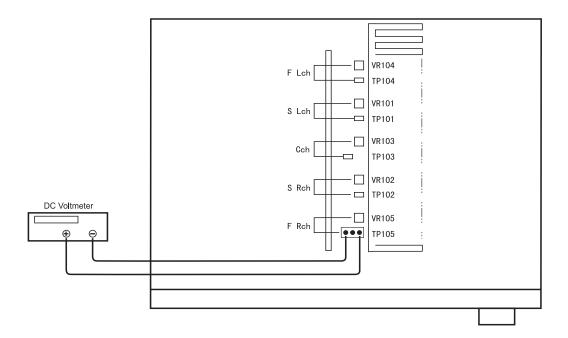
Adjustment

- (1) Remove top cover and set VR101, VR102, VR103, VR104, VR105 on Amp. Unit at full counterclockwise () position.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP104, FRONT-Rch: TP105, CENTER ch: TP103, SURROUND-Lch: TP101, SURROUND-Rch: TP102).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Presetting. MASTER VOLUME: "---" counterclockwise (min.)

MODE : 5CH STEREO

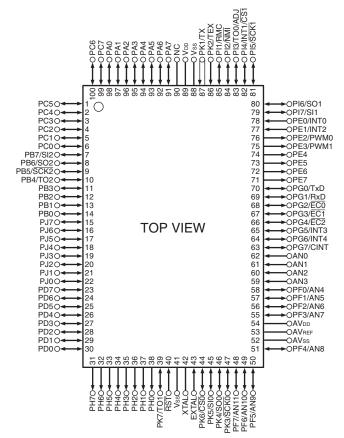
FUNCTION : CD

- (5) Within 2 minutes after the power on, turn VR101 clockwise () to adjust the TEST POINT voltage to 1.5 mV ±0.5 mV DC.
- (6) After 10 minutes from the preset above, turn VR101 to set the voltage to 2.5 mV ±0.5 mV DC.
- (7) Adjust the Variable Resistors of other channels in the same way.



SEMICONDUCTORS

● IC's CXP740096 (IC201)



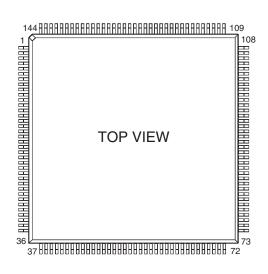
CXP740096 Terminal Function

Pin No.	Pin Name	I/O	Function
1	3811K1MUTE	0	BD3811K1 CONTROL
2	3811K1CLK	0	BD3811K1 CONTROL
3	3811K1DATA	0	BD3811K1 CONTROL
4	CDR/TAPE	0	CDR/TAPE INHIBIT
5	VCR	0	VCR INHIBIT
6	ERR MUTE	0	ERR MUTE
7	ERR MUTE OFF	0	ERR MUTE OFF
8	89057 AUDIO	ı	LC89057 CONTROL
9	89057 EMPHA	ı	LC89057 CONTROL
10	SW SUM	0	SW SUMMING CONTROL
11	M32 SDIN	ı	DATA INPUT FROM MELODY32
12	89057 SDIN	I	DATA INPUT FROM LC89057
13	EPROM RESET	0	EPROM RESET
14	89057 RESET	0	LC89057 RESET
15	M32 CS	0	MELODY32 CS
16	M32 SDOUT	0	MELODY32 CONTROL DATA
17	89057 CE	0	LC89057 CE
18	89057 SDOUT	0	CONTROL DATA
19	89057 SCLK	0	CONTROL CLOCK
20	1837 RESET	0	CODEC RESET
21	NC		
22	SW MUTE	0	SW MUTE
23	RELAY F-B	0	FRONT B RELAY

Pin No.	Pin Name	I/O	Function
24	RELAY F-A	0	FRONT A RELAY
	RELAY SURR	0	SURROUND RELAY
	RELAY CNT	0	CENTER RELAY
	RELAY H/P	0	H/P RELAY
-	FUNC UP	ı	ENCODER INPUT(FUNCTION)
	H/P DETECT	ı	H/P DETECT
-	FUNC DOWN	i	ENCODER INPUT(FUNCTION)
31	NC	_	
	CNT MUTE	0	CENTER MUTE
	FRONT MUTE	0	FRONT MUTE
	SURR MUTE	0	SURROUND MUTE
	NC	_	
	NC	_	
	NC	_	
	FL DRV RESET	0	LC75721NE RESET
	RELAY POWER	0	POWER RELAY
	RESET	ī	RESET
41	GND	i	
42	XTAL	<u> </u>	
43	EXTAL		
	FL DRV CE	0	LC75721NE CE
	FL DRV DATA	0	LC75721NE DATA
	FL DRV/2090 CLK	0	CONTROL CLOCK
	2090 DATA	0	BU2090F DATA
	VOL DOWN	ī	ENCODER INPUT(VOLUME)
_	VOL UP	<u> </u>	ENCODER INPUT(VOLUME)
	SEL DOWN	<u> </u>	ENCODER INPUT(SELECT)
	SEL UP	i	ENCODER INPUT(SELECT)
_	AVSS		ENOSETTIA OT(SEEEST)
_	VREF		
	AVDD		
55	NC		
56	GND		
57	STEP OPT	ı	AREA SELECT
_	SET OPT	i	MODEL SELECT
	GND	<u> </u>	model delect
	KEY IN3		KEY INPUT
	KEY IN2	i	KEY INPUT
	KEY IN1	i	KEY INPUT
	9K/10K STEP	i i	TUNER STEP SELECT
	PROTECT	<u> </u>	PROTECTION
	89057 INT	i	LC89057 INTERUPT
	M32 SCLK	0	MELODY32 CLOCK
	1837 CE	0	CODEC CE
	M32 RESET	0	MELODY32 RESET
	NC	<u> </u>	
	NC	_	
71	NC		
	NC		
	NC		
74	NC		
	NC		
	NC	-	
70	INO		

-			
Pin No.	Pin Name	I/O	Function
77	PWR DOWN	ı	POWER DOWN DETECT
78	RDS CLK	0	TDA7330 CONTROL CLOCK
79	RDS DATA	0	TDA7330 CONTROL DATA
80	NC	_	
81	VIDEO MUTE	0	VIDEO MUTE
82	M32 INTREQ	I/O	MELODY32 CONTROL
83	VIDEO SEL1	0	VIDEO SELECT1
84	VIDEO SEL2	0	VIDEO SELECT2
85	REMOCON	ı	REMOTE CONTROL SIGNAL INPUT
86	GND		
87	GND	_	
88	VSS	_	
89	VDD	_	
90	NC		
91	NC		
92	PLL DATA	0	PLL CONTROL
93	PLL CLK	0	PLL CONTROL
94	PLL DT IN	0	PLL CONTROL
95	TU MUTE	0	TUNER MUTE
96	STEREO	1	STEREO DETECT
97	TUNED	I	TUNED DETECT
98	PLL CE	0	PLL CONTROL
99	NC		
100	NC	l —	

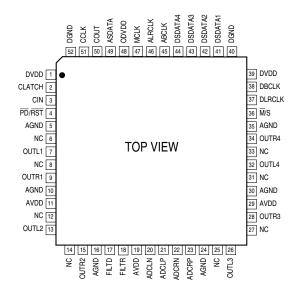
MELODY32 (IC802)

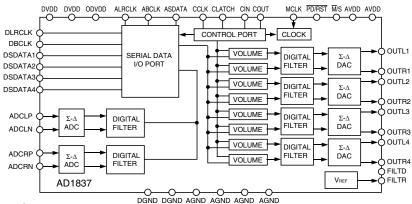


MELODY32 Terminal Function

Pin No.	Pin Name										
1	D14	25	VDDEXT	49	DR2	73	RESET	97	A11	121	WR
2	D15	26	HACK	50	RCLK2	74	TDO	98	A12	122	RD
3	HAD0	27	HCMS	51	RFS2	75	TDI	99	A13	123	D0
4	HAD1	28	HCIOMS	52	RXD	76	TMS	100	VDDEXT	124	D1
5	GND	29	GND	53	TXD	77	GND	101	A14	125	D2
6	HAD2	30	HALE	54	GND	78	TCK	102	A15	126	D3
7	HAD3	31	HRD	55	GND	79	TRST	103	A16	127	VDDINT
8	HAD4	32	HWR	56	DT0	80	GND	104	A17	128	D4
9	HAD5	33	GND	57	TCLK0	81	EMU	105	GND	129	GND
10	HAD6	34	PF0	58	VDDINT	82	VDDINT	106	A18	130	CLKOUT
11	HAD7	35	PF1	59	TF50	83	OPMODE	107	A19	131	VDDEXT
12	HAD8	36	PF2	60	DR0	84	A0	108	A20	132	CLKIN
13	VDDEXT	37	PF3	61	RCLK0	85	A1	109	A21	133	XTAL
14	HAD9	38	PF4	62	RFS0	86	A2	110	BGH	134	GND
15	HAD10	39	PF5	63	VDDEXT	87	A3	111	BG	135	D5
16	GND	40	VDDEXT	64	DT1	88	A4	112	BR	136	D6
17	HAD11	41	PF6	65	TCLK1	89	A5	113	BMS	137	D7
18	HAD12	42	PF7	66	TFS1	90	VDDEXT	114	ĪOMS	138	D8
19	VDDINT	43	TMR0	67	DR1	91	A6	115	MS0	139	D9
20	HAD13	44	TMR1	68	RCLK1	92	A7	116	MS1	140	D10
21	HAD14	45	TMR2	69	RFS1	93	A8	117	MS2	141	D11
22	HAD15	46	DT2	70	BMODE0	94	GND	118	VDDEXT	142	D12
23	HA16	47	TCLK2	71	BMODE1	95	A9	119	MS3	143	VDDEXT
24	HACK_P	48	TFS2	72	BYPASS	96	A10	120	ACK	144	D13

AD1837 (IC808)

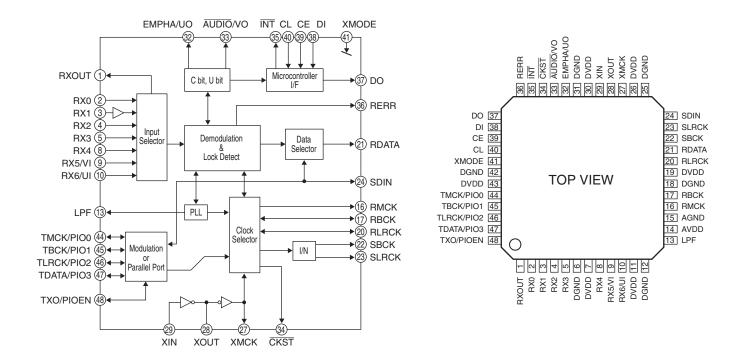




AD1837 Terminal Function

Pin No.	Pin Name	Input/ Output	Description
1,39	DVDD		Digital Power Supply. Connect to digital 5V supply.
2	CLATCH	I	Latch Input for Control Data
33	CIN	I	Serial Control Input
4	PD/RST	I	Power-Down/Reset
5,10,16,24,30,35	AGND		Analog Ground
6,12,25,31	NC		Not connected
7,13,26,32	OUTLx	0	DACx Left Channel Output
8,14,27,33	NC		Not connected
9,15,28,34	OUTRx	0	DACx Right Channel Output
11,19,29	AVDD		Analog Power Supply. Connect to analog 5V supply.
17	FILTD		Filter Capacitor Connection. Recommend 10µF/100nF.
18	FILTR		Reference Filter Capacitor Connection. Recommended 10µF/100nF.
20	ADCLN	- 1	ADC Left Channel Negative Input
21	ADCLP	- 1	ADC Left Channel Positive Input
22	ADCRN	I	ADC Right Channel Negative Input
23	ADCRP	1	ADC Right Channel Positive Input
36	M/S	1	ADC Master/Slave Select
37	DLRCLK	I/O	DAC LR Clock
38	DBCLK	I/O	DAC Bit Clock
40,52	DGND		Digital Ground
41-44	DSDATAx	- 1	DACx Input Data (Left and Right Supply)
45	ABCLK	I/O	ADC Bit Clock
46	ALRCLK	I/O	ADC LR Clock
47	MCLK	I	Master Clock Input
48	ADVDD		Digital Output Driver Power Supply
49	ASDATA	0	ADC Serial Data Output
50	COUT	0	Output for Control Data
51	CCLK	I	Control Clock Input for Control Data

LC89057W (IC807)



LC89057W Terminal Function

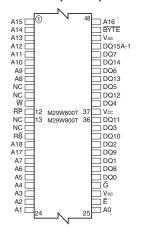
Pin No.	Pin Name	I/O	Function
1	RXOUT	0	Input bi-phase select data output terminal
2	RX0	l ₅	TTL compatible digital data input terminal
3	RX1	I	Coaxial compatible amp built-in digital data input terminal
4	RX2	l ₅	TTL compatible digital data input terminal
5	RX3	l ₅	TTL compatible digital data input terminal
6	DGND		Digital GND
7	DVDD		Digital power
8	RX4	l ₅	TTL compatible digital data input terminal
9	RX5/VI	l ₅	TTL compatible digital data/Validity flag input terminal for modulation
10	RX6/UI	l ₅	TTL compatible digital data/User data input terminal for modulation
11	DVDD		Digital power for PLL
12	DGND		Digital GND for PLL
13	LPF	0	PLL loop filter connecting terminal
14	AVDD		Analog power for PLL
15	AGND		Analog GND for PLL
16	RMCK	0	RMCK clock output terminal (256fs, 512fs, XIN, VCO)
17	RBCK	O/I	RBCK clock in/output terminal (64fs)
18	DGND		Digital GND
19	DVDD		Digital power
20	RLRCK	O/I	RLRCK clock in/output terminal (fs)
21	RDATA	0	Serial audio data output terminal
22	SBCK	0	SBCK clock output terminal (32fs, 64fs, 128fs)
23	SLRCK	0	SLRCK clock output terminal (fs/2, fs, 2fs)
24	SDIN	l ₅	Serial audio data input terminal
25	DGND		Digital GND
26	DVDD	_	Digital power
27	XMCK	0	Osc. amp output terminal

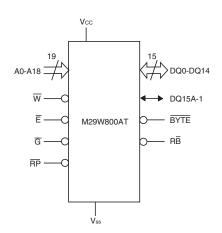
Pin No.	Pin Name	I/O	Function
28	XOUT	0	X'tal osc. connecting output terminal
29	XIN	I	X'tal osc. connection, external clock input terminal (24.576MHz or 12.288MHz)
30	DVDD	_	Digital power
31	DGND	_	Digital GND
32	EMPHA/UO	I/O	Emphasis information/U-data output/Chip address setting terminal
33	AUDIO/VO	I/O	Non-PCM detect/V-flag output/ Chip address setting terminal
34	CKST	I/O	Clock switch transition period output/Demodulation master or slave function switching terminal
35	INT	I/O	Interrupt output for μcom (Interrupt factor selectable)/Modulation or general I/O switching terminal
36	RERR	0	PLL lock error, data error flag output
37	DO	0	μcom I/F, read out data output terminal (3-state)
38	DI	l ₅	μcom I/F, write data input terminal
39	CE	l ₅	μcom I/F, chip enable input terminal
40	CL	l ₅	μcom I/F, clock input terminal
41	XMODE	l ₅	System reset input terminal
42	DGND	_	Digital GND
43	DVDD	l —	Digital power
44	TMCK/PIO0	I/O	256fs system clock input for modulation/General I/O in/output terminal
45	TBCK/PIO1	I/O	64fs bit clock input for modulation/General I/O in/output terminal
46	TLRCK/PIO2	I/O	fs clock input for modulation/General I/O in/output terminal
47	TDATA/PIO3	I/O	Serial audio data input for modulation/General I/O in/output terminal
48	TXO/PIOEN	O/I	Modulation data output/ General I/O enable input terminal

^{*} For latch-up countermeasure, perform each power supply ON/OFF in the same timing.

LC72131 (IC401) LA1266 (IC402) AM-IF FM-IF FM-IN 1 🗆 🔾 XIN 1 20 XOUT FM - IF Q.D. 19 Vss CE 2 18 AOUT AM-IN (21)-RF MIX DET 17 AIN CL 4 NARROW S-METER LED DRIVER OSC BUFFER REG osc AGC S-METER DO 5 16 PD GND BO1 6 12 15 VDD 14 FMIN BO2 7 LA3401 (IC403) 13 AMIN BO3 8 PHASE COMPARATOR VOL REG osc PILOT DET LAMP DRIVER BO4 9 12 102 VCO STOP #III IFIN SYMMETRICAL REOCTANCE CIRCUIT TRIGGER STEREO SWITCH MUTING CONTROL FM AM CHANGE OVER MUTING OUTPUT DECODER Rc Rb MUTING FM AM CHANGE Vcc ON MUTING

M29W800AT (IC805)

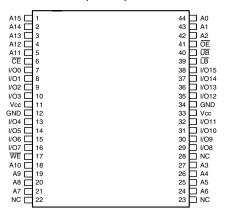


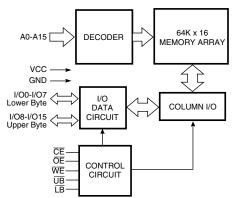


PIN DESCRIPTION

Symbol	Pin Name				
A0-A18	Address Inputs				
DQ0-DQ7	Data Input/Outputs, Command Inputs				
DQ8-DQ14	Data Input/Outputs				
DQ15A-1	Data Input/Output or Address Input				
IE	Chip Enable				
IG	Output Enable				
W	Write Enable				
RP	Reset/Block Temporary Unprotect				
R₿	Ready/Busy Output				
BYTE	Byte/Word Organization				
Vcc	Supply Voltage				
Vss	Ground				
NC	No Connected Internally				
DU	Don't Use as Internally Connected				

IS61LV6416 (IC806)

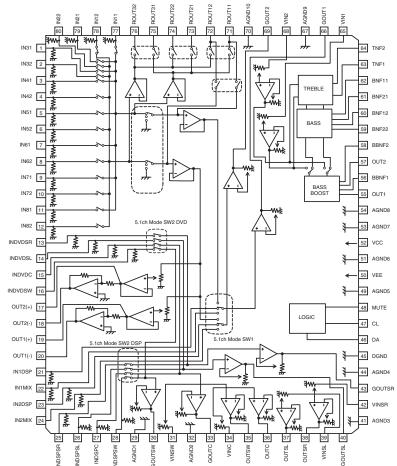




PIN DESCRIPTION

Symbol	Pin Name
A0-A15	Address inputs
I/O0-I/O15	Data Inputs/Outputs
CE	Chip Enable Input
E	Output Enable Input
WE	Write Enable Input
LB	Lower-byte Control (I/O0-I/O7)
ŪB	Upper-byte Control (I/O8-I/O15)
NC	No Connection
Vcc	Power
GND	Ground

BD3811K1 (IC701)

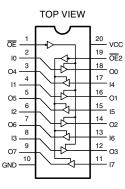


LC75721E (IC301)

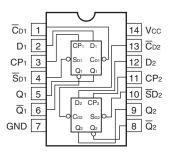
LC75721E Terminal Function

Symbol	Function
VDD	Power terminal +5V
Vss	Power terminal GND
V _{FL}	Power terminal FL drive
DI CL CE	Serial data transfer terminal DI: Data CL: Clock CE: Chip enable
OSCI OSCO	External CR connecting terminal
RES	System reset terminal
AM1~AM35 AA1~AA3	Anode output terminal
AA4/G16 AA5/G15 AA6/G14 AA7/G13 AA8/G12	Anode/Grid output terminal
G1~G11	Grid output terminal
TEST	LSI test terminal

MM74LCX244 (IC809~811)



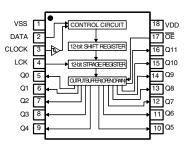
74LCX74 (IC821)



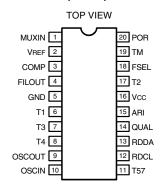
Pin Descriptions

Pin Names	Description
D1, D2	Data Inputs
CP1, CP2	Clock Pulse Inputs
CD₁, CD₂	Direct Clear Inputs
SD₁, SD₂	Direct Set Inputs
$Q_1, \overline{Q}_1, Q_2, \overline{Q}_2$	Outputs

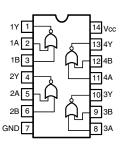
BU2090F (IC302)



TDA7330BD (IC202)



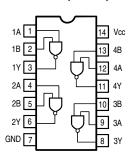
MM74LCX02 (IC813)



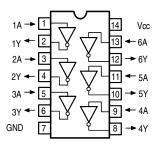
NJM2068MD (IC815~820,721,761,762, 763,781,782,783,817,818,819) BA4510F (IC815,816)



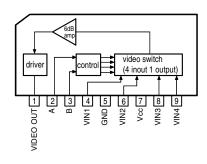
SN74LV00APW (IC814)



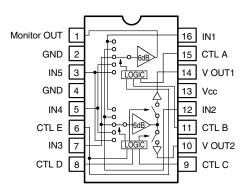
74HCU04 (IC803)



LA7952 (IC601,621,622)



BA7625 (IC651) BA7626 (IC652,653)



Α	В	Е	MONITOR OUT
L	L	*	IN 1
Н	L	*	IN 2
L	Н	*	IN 3
Н	Н	L	IN 4
Н	Н	Н	IN 5

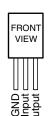
С	D	Е	V OUT 1
L	L	*	_
Н	L	*	IN 2
L	Η	*	IN 3
Н	Η	L	IN 4
Н	Н	Н	IN 5

С	D	Е	V OUT 2
L	L	*	IN 1
Н	L	*	
L	Н	*	IN 3
Н	Н	L	IN 4
Н	Н	Η	IN 5

Note 1: * mark means that feasible for either H or L.

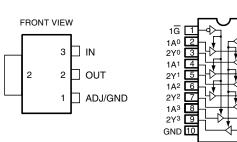
Note 2: Each input terminal is provided with sink chip clamp (BA7625). Each input terminal takes 20kohm at the end (BA7626).

KIA7806AP (IC602) KIA7805AP (IC104,103,822) KIA7815AP (IC101) KIA7812AP (IC271)



KIA7915PI (IC102)

RC1117S25T (IC824) RC1117S33ST (IC823)

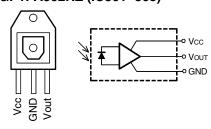






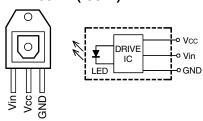
OPTICAL

INPUT GP1FA502RZ (IC801~803)



OUTPUT GP1FA502TZ(IC817)

Vout



• IC PROTECTOR

ICP-N15 (IC105)

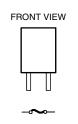
MM74HCT244 (IC812)

17 2Aº

15 2A1

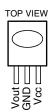
14 1Y² 13 2A² 12 1Y³

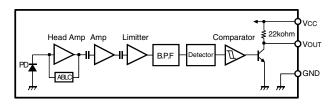
11 2A3



IR SENSOR

NJL64H380A(RMC301)





POSISTOR P43T7D330BW16



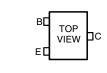
TRANSISTORS

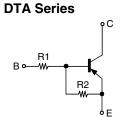
FRONT

VIEW



DTA114EK DTA114YK DTA144EK DTC114EK DTC114YK DTC144EK

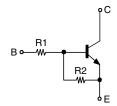




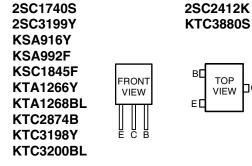
2SK117

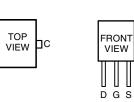
	R1	R2
DTA114EK	10kohm $/\Omega$	10kohm / Ω
DTA114ES	10kohm $/\Omega$	10kohm / Ω
DTA114YK	10kohm $/\Omega$	47kohm / Ω
DTA144EK	47kohm / $Ω$	47kohm /Ω

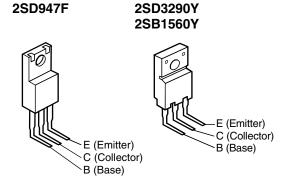
DTC Series



	R1	R2
DTC114EK	10kohm/ Ω	10kohm / Ω
DTC114TS	10kohm/ Ω	_
DTC114YK	10kohm / Ω	47kohm / Ω
DTC114YS	10kohm / Ω	47kohm / Ω
DTC144EK	47kohm $/$ Ω	47kohm / Ω
DTC144ES	47kohm /Ω	47kohm / Ω



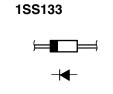




DIODES (LED included)







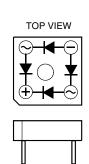
1N4007



KDS160

HL-50RDRF4T

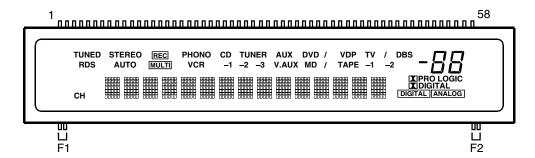


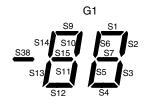


KBPC604

• FL DISPLAY

16-st-42GNK (FL301)





G16 TUNED RDS	G15 STEREO AUTO	G13 REC MULTI	PHONO	CD	TUÑĚR	AUX	DVD	/ VE	4 G3 DP TV PE -1	/ DBS
СН			G11							DIPRO LOGIC DIDIGITAL DIGITAL ANALOG

G2~G16										
S1	S2	S3	S4	S5						
S6	S7	S8	S9	S10						
S11	S12	S13	S14	S15						
S16	S17	S18	S19	S20						
S21	S22	S23	S24	S25						
S26	S27	S28	S29	S30						
S31	S32	S33	S34	S35						

Pin Assignment

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CONNECTION	F1	F1	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18
PIN NO. CONNECTION	21 S19	22 S20	23 S21	24 S22	25 S23	26 S24	27 S25	28 S26	29 S27	30 S28	31 S29	32 S30	33 S31	34 S32	35 S33	36 S34	37 S35	38 S36	39 S37	40 S38
PIN NO. CONNECTION	41 G16	42 G15	43 G14	44 G13	45 G12	46 G11	47 G10	48 G9	49 G8	50 G7	51 G6	52 G5	53 G4	54 G3	55 G2	56 G1	57 F2	58 F2		

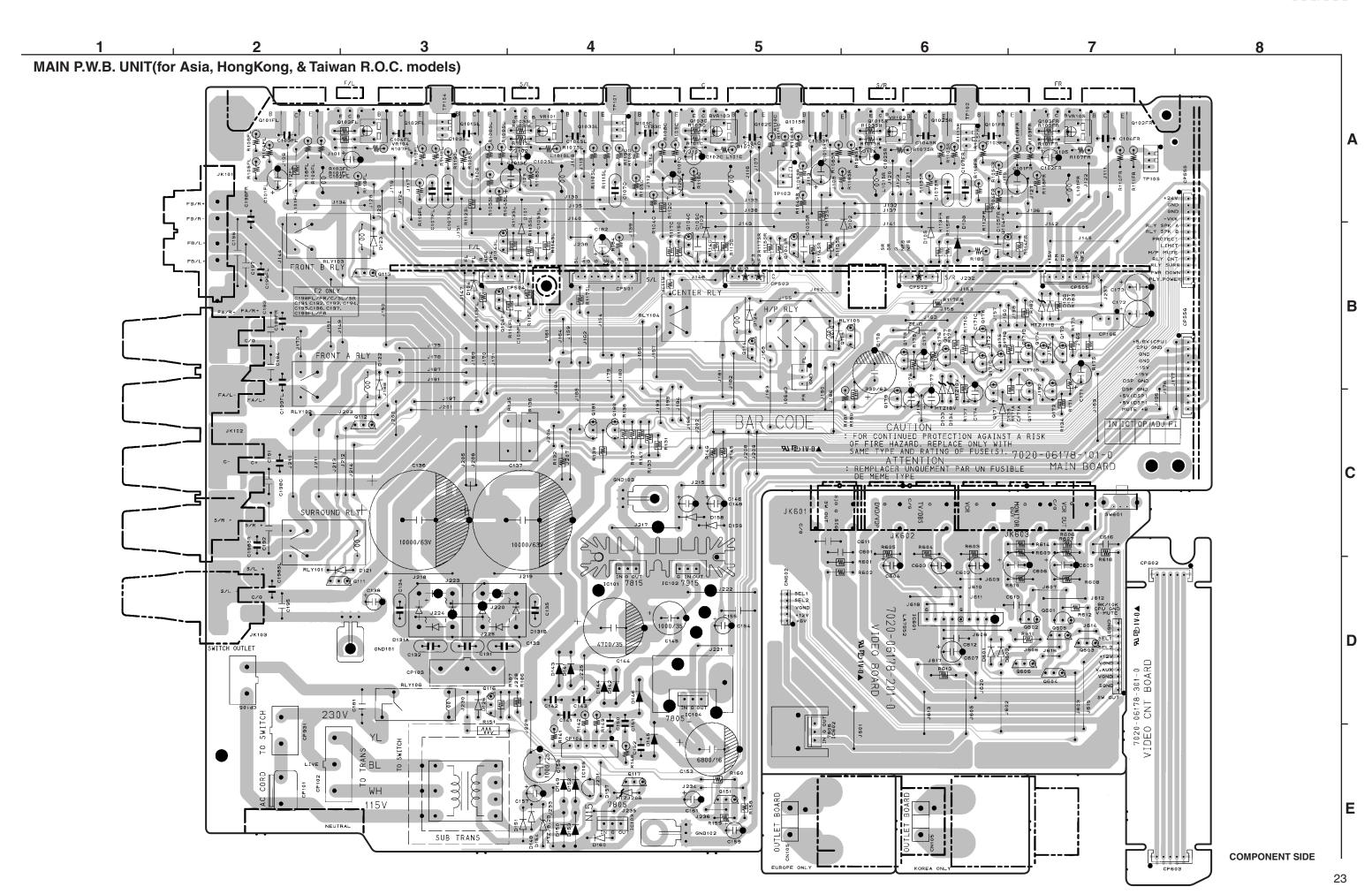
F1, F2: Filament G1~G16: Grid S1~S38: Anode

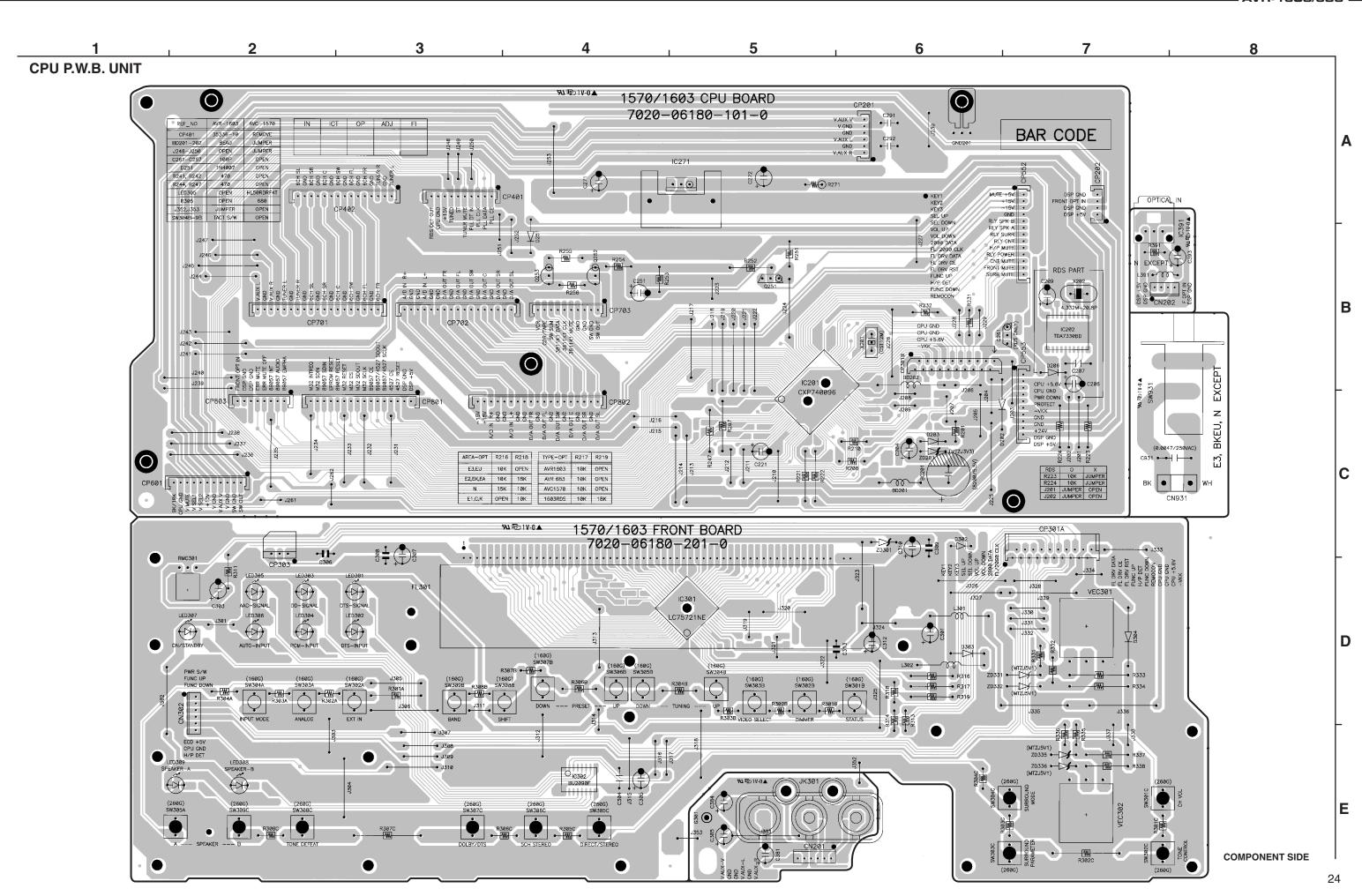
Anode & Grid Assignment

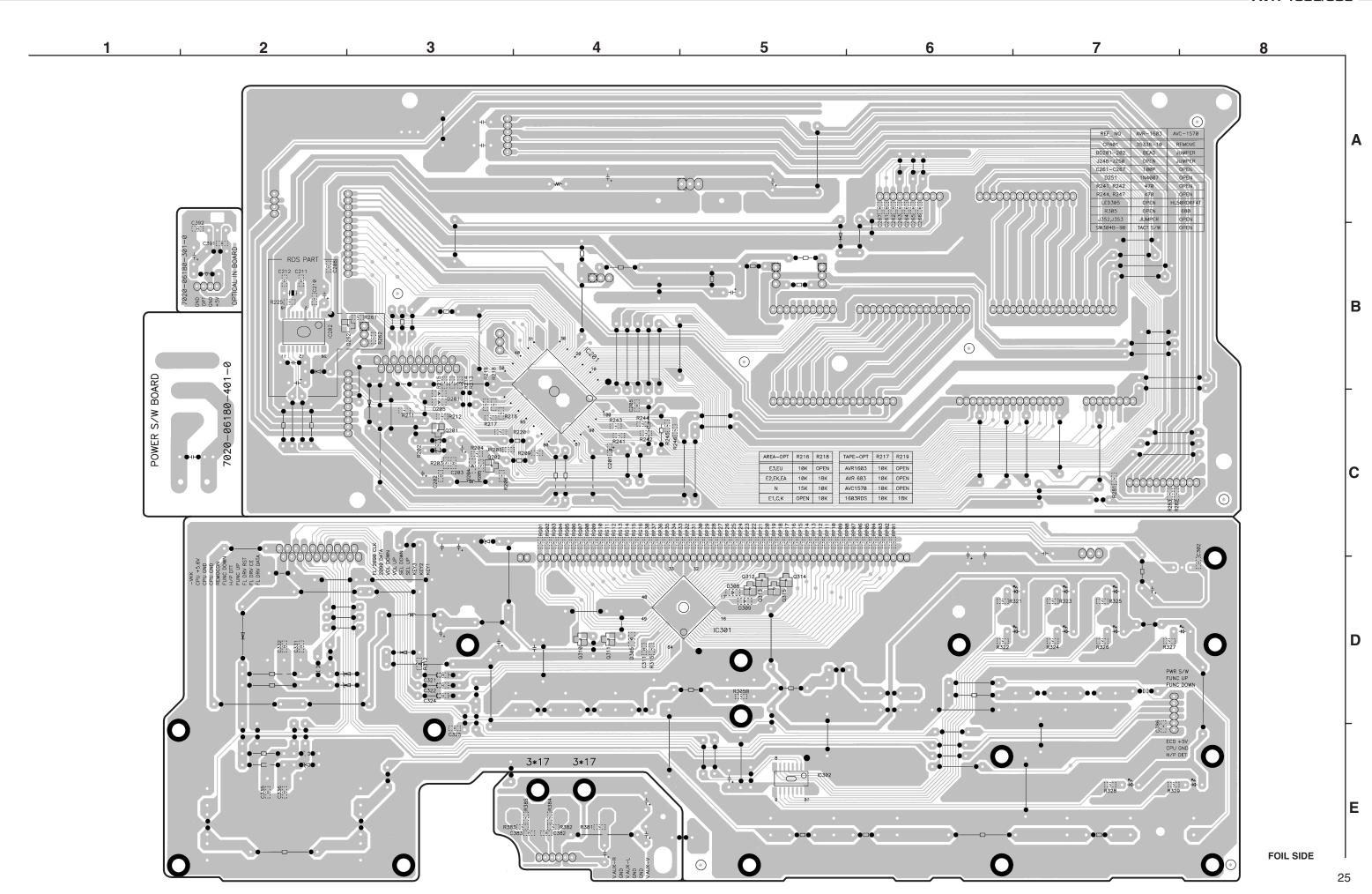
	G1	G2~G16		G1	G2~G16		G1	G2~G16		G1	G2~G16
S1	S1	S1	S10	S10	S10	S19		S19	S28		S28
S2	S2	S2	S11	S11	S11	S20		S20	S29		S29
S3	S3	S3	S12	S12	S12	S21		S21	S30		S30
S4	S4	S4	S13	S13	S13	S22		S22	S31		S31
S5	S5	S5	S14	S14	S14	S23		S23	S32		S32
S6	S6	S6	S15	S15	S15	S24		S24	S33		S33
S7	S7	S7	S16		S16	S25		S25	S34		S34
S8		S8	S17	™ DIGIT <i>A</i>	L S17	S26		S26	S35		S35
S9	S9	S9	S18	DE PRO LO	GICS18	S27		S27			

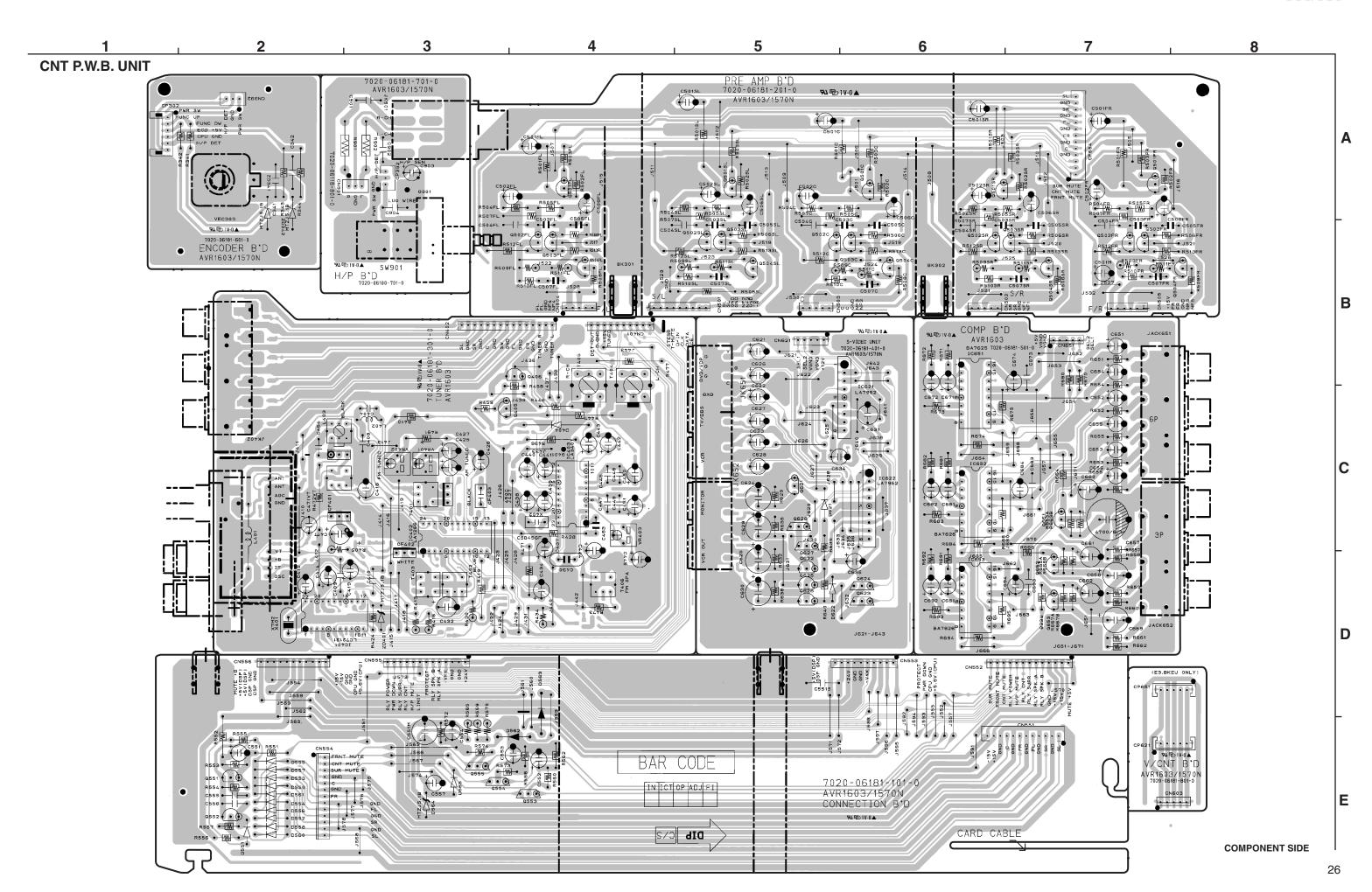
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
S36	DIGITAL	/	TV	VDP	/(DVD)	DVD	AUX		TUNER	CD		PHONO	REC		STEREO	TUNED
S37	ANALOG	-2	-1	TAPE	/(MD)	MD	V.AUX		-2	-1		VCR	MULTI		AUTO	RDS
S38	S38	DBS							-3							CH

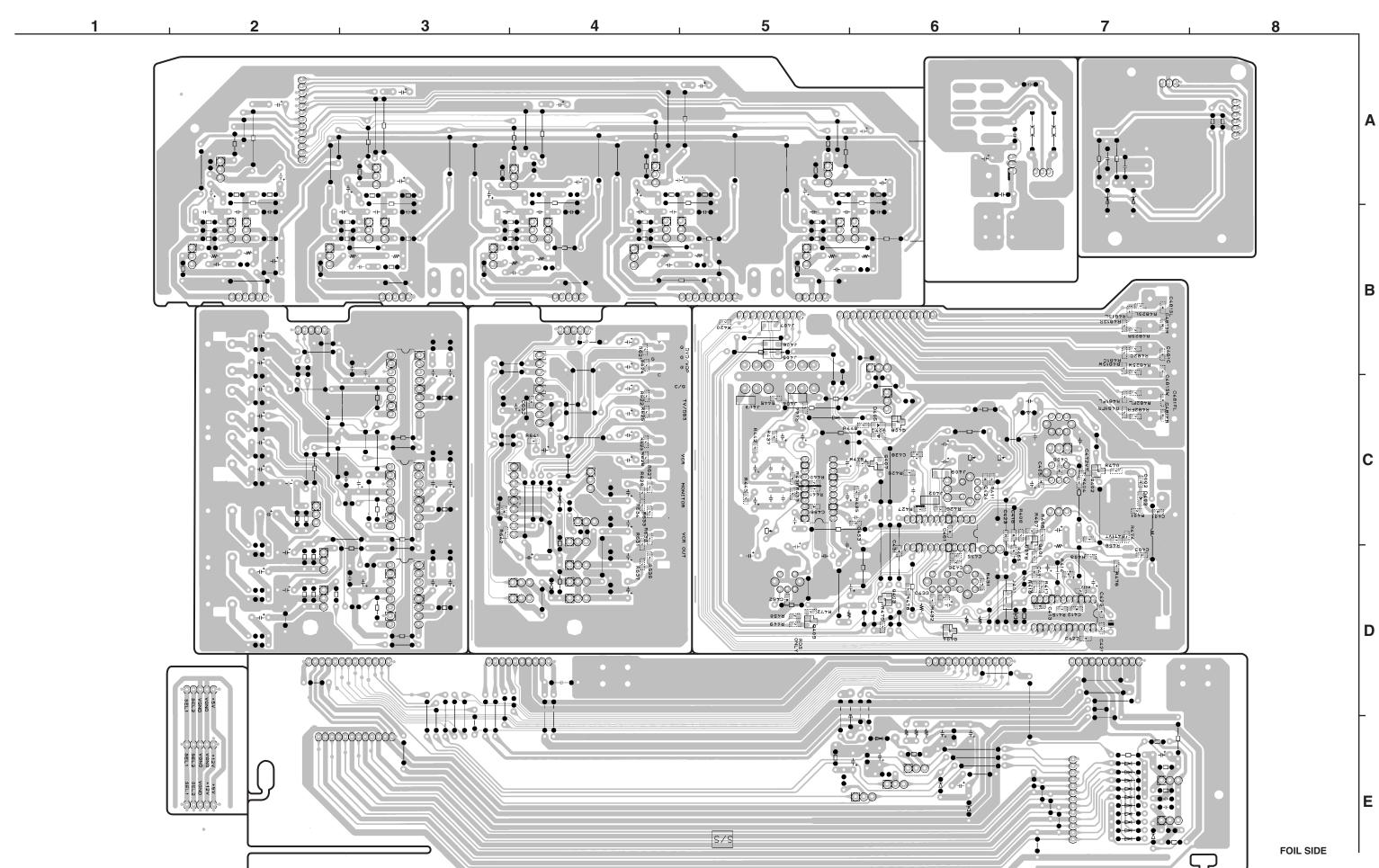
PRINTED WIRING BOARDS MAIN P.W.B. UNIT(for U.S.A., Canada, U.K., Europe, China, Korea & Australia models) CAUTION CAU 7AL ाि 1V-0 ▲ SUB TRANS COMPONENT SIDE



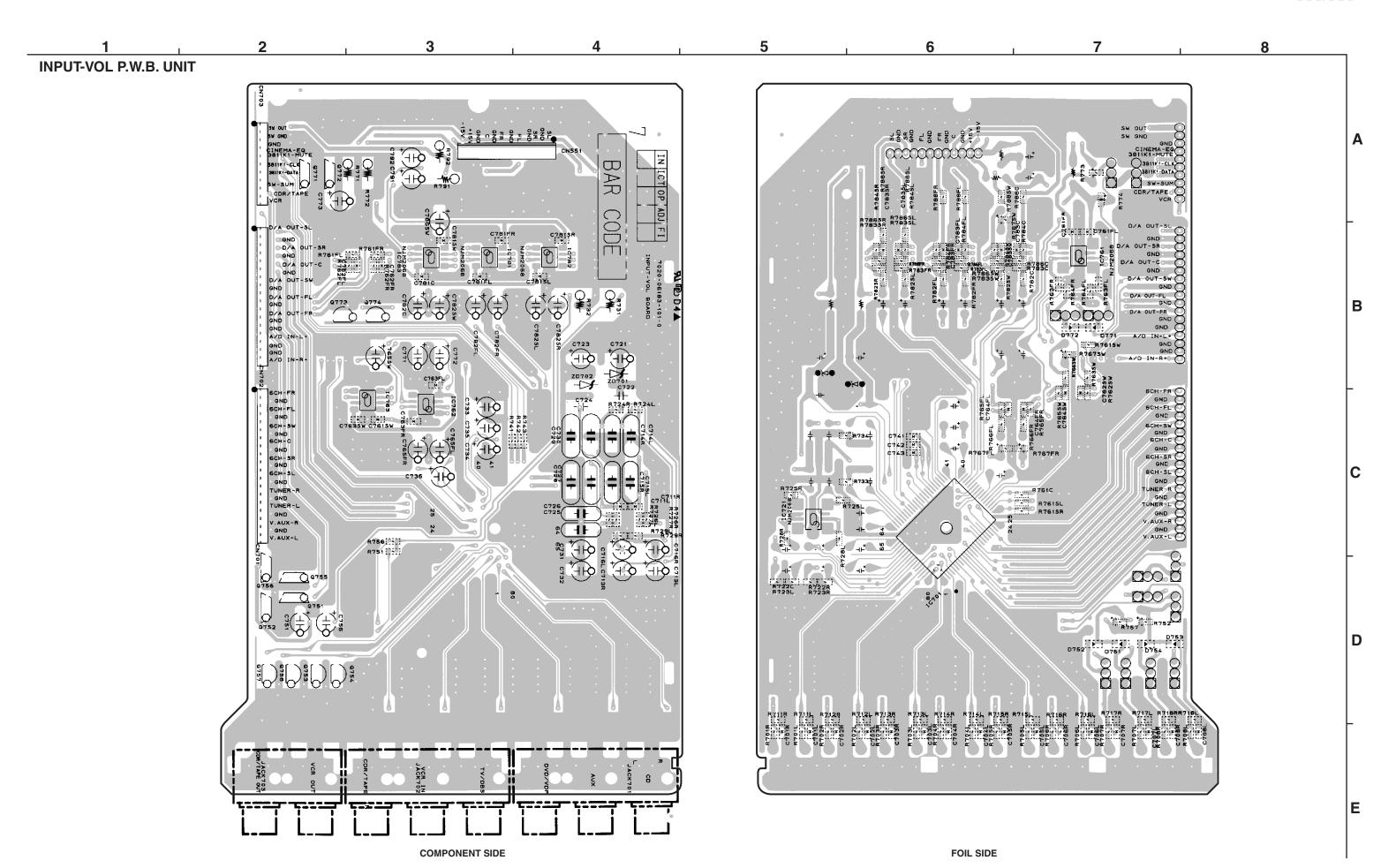








27



DSP P.W.B. UNIT IN ICT OP ADJ FI AVR1603/1803 DSP B'D N KS3V-04
7020-06164-101-0
10808 IS61LV6416
M29W800A 20 16 10 5 **COMPONENT SIDE** CH-6 CH-0 **FOIL SIDE**

Α

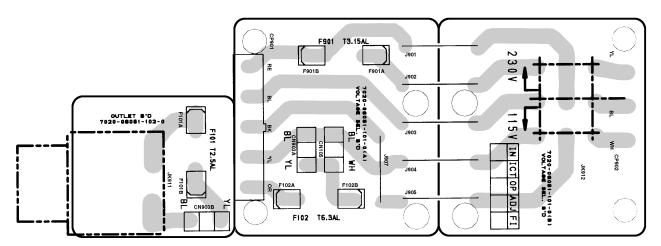
В

C

D

1 2 3 4

VOLTAGE SEL P.W.B. UNIT



COMPONENT SIDE

Ε

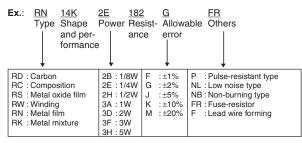
NOTE FOR PARTS LIST

- Part indicated with the mark "●" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

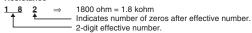
Parts marked with this symbol $\hat{\mathbb{A}}$ have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

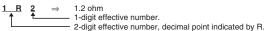
Resistors





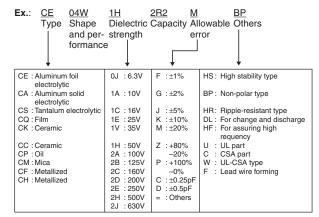


• Units: ohm



• Units: ohm

Capacitors



* Capacity (electrolyte only)

Units: μF.

* Capacity (except electrolyte)

• Units: pF.

• Units: pF.

 When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y MAIN P.W.B. ASS'Y

Ref. No. Part No. **Part Name** Remarks **SEMICONDUCTORS GROUP** 963 0057 903 IC101 IC KIA7815AP IC102 963 0021 502 IC KIA7915PI IC103 960 0159 501 IC KIA7805API IC104 963 0057 709 IC KIA7805AP IC105 960 0195 808 IC ICP-N15 IC601 960 0180 101 IC LA7952 for E3 IC602 960 0044 108 IC KIA7806AP Q104C Transistor KSC1845F 960 0196 506 Q104FL 960 0196 506 Transistor KSC1845F Q104FR 960 0196 506 Transistor KSC1845F Q104SL 960 0196 506 Transistor KSC1845F Q104SR 960 0196 506 Transistor KSC1845F Q111 960 0196 904 Transistor DTC114YS Q112 Transistor DTC114YS 960 0196 904 960 0196 904 Transistor DTC114YS Q113 Q114 960 0196 904 Transistor DTC114YS Q115 960 0196 904 Transistor DTC114YS Q116 960 0196 409 Transistor 2SC1740SR Q117 960 0196 904 Transistor DTC114YS Q151 960 0196 409 Transistor 2SC1740SR Q171 960 0005 202 Transistor KTC3198Y Q171A 960 0196 302 Transistor KTA1268BL Q171B 960 0196 302 Transistor KTA1268BL Q171C 960 0196 302 Transistor KTA1268BL Q172 960 0005 202 Transistor KTC3198Y Q173 960 0005 202 Transistor KTC3198Y Q174 960 0005 202 Transistor KTC3198Y Q175 960 0005 202 Transistor KTC3198Y Q176 960 0005 202 Transistor KTC3198Y Q177 960 0005 202 Transistor KTC3198Y 960 0005 105 Q178 Transistor KTA1266Y Q179 960 0189 005 Transistor KSA916Y Q180 960 0196 302 Transistor KTA1268BL Q181 960 0196 302 Transistor KTA1268BL Q601 960 0005 202 Transistor KTC3198Y Q602 960 0005 202 Transistor KTC3198Y Q603 960 0196 904 Transistor DTC114YS Q604 960 0196 904 Transistor DTC114YS Q605 960 0196 904 Transistor DTC114YS Q606 960 0196 904 Transistor DTC114YS D101 963 0096 508 Diode 1N4148-52RE D102 963 0096 508 Diode 1N4148-52RE D103 963 0096 508 Diode 1N4148-52RE D104 963 0096 508 Diode 1N4148-52RE D105 963 0096 508 Diode 1N4148-52RE D121 963 0096 508 Diode 1N4148-52RE D122 963 0096 508 Diode 1N4148-52RE

Note: The symbols in the column "Remarks" indicate the following destinations.

E3: U.S.A. & Canada model EU: U.S.A. model (AVR-683) E2: Europe model EK: U.K. model E1: Asia model
E1C: China model
E1H: Hong Kong model
E1T: Taiwan R.O.C. model

	EK : U.K. i EA : Austr	model alia model	E1T : Taiwan R.O.C. mode E1K : Korea model	l
]	Ref. No.	Part No.	Part Name	Remarks
⅃	D123	963 0096 508	Diode 1N4148-52RE	
ı	D124	963 0096 508	Diode 1N4148-52RE	
ı	D125	963 0096 508	Diode 1N4148-52RE	
ı	D126	963 0096 508	Diode 1N4148-52RE	
ı	D131A	960 0197 107	Diode KBPC604 6A	
ı	D131B	960 0197 107	Diode KBPC604 6A	
ı	D132	963 0096 508	Diode 1N4148-52RE	
ı	D133	963 0046 202	Zener diode MTZJ18B	
ı	D134	963 0046 202	Zener diode MTZJ18B	
ı	D135	963 0096 508	Diode 1N4148-52RE	
ı	D136	963 0058 504	Zener diode MTZJ11B-0.5W	
ı	D137	963 0096 508	Diode 1N4148-52RE	
ı	D138	963 0058 407	Diode IN4007	
ı	D141	963 0058 407	Diode IN4007	
ı	D142	963 0058 407	Diode IN4007	
ı	D143	963 0058 407	Diode IN4007	
ı	D144	963 0058 407	Diode IN4007	
ı	D145	963 0058 407	Diode IN4007	
ı	D146	963 0058 407	Diode IN4007	
ı	D148	963 0096 508	Diode 1N4148-52RE	
ı	D149	963 0058 407	Diode IN4007	
ı	D150	963 0058 407	Diode IN4007	
ı	D151	963 0096 508	Diode 1N4148-52RE	
ı	D152	963 0058 407	Diode IN4007	
ı	D153	963 0058 407	Diode IN4007	
ı	D154	960 0095 908	Zener diode MTZJ8.2B	
ı	D157	963 0058 708	Zener diode MTZJ20B	
ı	D158	963 0096 508	Diode 1N4148-52RE	
ı	D159 D160	963 0096 508 963 0096 508	Diode 1N4148-52RE Diode 1N4148-52RE	
ı	D100	903 0090 300	Didde 1114140-32NL	
ı	D601	963 0096 508	Diode 1N4148-52RE	
ı	D602	963 0096 508	Diode 1N4148-52RE	
ı				
ı	RESISTO	RS GROUP		
ı	R104C	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R104FL	963 9005 451		
ı	R104FR	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R104SL	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R104SR	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R105C	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R105FL	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R105FR	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R105SL	963 9005 451	Metal oxide 5.6 kohm 1W	
	R105SR	963 9005 451	Metal oxide 5.6 kohm 1W	
ı	R106C	963 0047 900	Metal film 4.7 kohm 1W	
1	R106FL	963 0047 900	Metal film 4.7 kohm 1W	
	R106FR	963 0047 900	Metal film 4.7 kohm 1W	
	R106SL	963 0047 900	Metal film 4.7 kohm 1W	
ı	R106SR	963 0047 900	Metal film 4.7 kohm 1W	
1	R107C	963 0047 900	Metal film 4.7 kohm 1W	
	R107FL	963 0047 900	Metal film 4.7 kohm 1W	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R107FR	963 0047 900	Metal film 4.7 kohm 1W			ORS GROU	P	ļ.
R107SL		Metal film 4.7 kohm 1W		C101C	093 9005 888	Electrolytic 47uF/50V	
R107SR		Metal film 4.7 kohm 1W		C101FL		Electrolytic 47uF/50V	
R108C		Metal oxide 0.22 ohm 1W		C101FR		Electrolytic 47uF/50V	
R108FL	963 9005 477			C101111		Electrolytic 47uF/50V	
R108FR	963 9005 477			C101SE		Electrolytic 47uF/50V	
R108SL		Metal oxide 0.22 ohm 1W		C1013R		l	
R108SR		Metal oxide 0.22 ohm 1W		1		Electrolytic 10uF/35V	
R109C		Metal oxide 0.22 ohm 1W		C102FL C102FR		Electrolytic 10uF/35V Electrolytic 10uF/35V	
R109FR		Metal oxide 0.22 ohm 1W		C102Fh		,	
R109FL		Metal oxide 0.22 ohm 1W		C102SE C102SR		Electrolytic 10uF/35V Electrolytic 10uF/35V	
R109SL		Metal oxide 0.22 ohm 1W		1		,	
R109SR		Metal oxide 0.22 ohm 1W		C103C	963 9003 084	· ·	
R110C		Metal oxide 0.22 ohm 1W		C103FL	963 9003 084	'	
R110FR		Metal oxide 0.22 ohm 1W		C103FR	963 9003 084	'	
R110FL	963 9005 477			C103SL	963 9003 084	l	
R110SL		Metal oxide 0.22 ohm 1W		C103SR	963 9003 084	l	
R110SR		Metal oxide 0.22 ohm 1W		C104C	963 9003 084	'	
R111C		Metal oxide 0.22 ohm 1W		C104FL	963 9003 084	'	
R111FL		Metal oxide 0.22 ohm 1W		C104FR	963 9003 084	'	
R111FR				C104SL	963 9003 084	l	
		Metal oxide 0.22 ohm 1W		C104SR	963 9003 084		
R111SL		Metal oxide 0.22 ohm 1W		C105C	960 9003 108		
R111SR		Metal oxide 0.22 ohm 1W		C105FL	960 9003 108		
R118C		Metal oxide 10 ohm 1W		C105FR	960 9003 108	Ceramic 0.022uF/25V	
R118FL		Metal oxide 10 ohm 1W		C105SL	960 9003 108		
R118FR		Metal oxide 10 ohm 1W		C105SR		Ceramic 0.022uF/25V	
R118SL		Metal oxide 10 ohm 1W		C107C		Mylar film 0.1uF/250V	
R118SR		Metal oxide 10 ohm 1W		C107FL	963 9003 097	Mylar film 0.1uF/250V	
R119C		Metal oxide 10 ohm 1W		C107FR	963 9003 097	Mylar film 0.1uF/250V	
R119FL		Metal oxide 10 ohm 1W		C107SL	963 9003 097	*	
R119FR		Metal oxide 10 ohm 1W		C107SR	963 9003 097	Mylar film 0.1uF/250V	
R119SL		Metal oxide 10 ohm 1W		C131	963 9003 097	Mylar film 0.1uF/250V	
R119SR		Metal oxide 10 ohm 1W		C132	963 9003 097	Mylar film 0.1uF/250V	
R135		Winding 0.1 ohm 5W		C133		Mylar film 0.1uF/250V	
R136		Winding 0.1 ohm 5W		C134	963 9003 097	Mylar film 0.1uF/250V	
R141		Metal film 0.22 ohm 1W		C135	963 9003 097	Mylar film 0.1uF/250V	
R142		Metal film 0.22 ohm 1W		C136	963 0087 203	Electrolytic 10000uF/63V	
R148		Metal film 0.22 ohm 1W		C137	963 0087 203	Electrolytic 10000uF/63V	
R149		Metal film 0.22 ohm 1W		C138	963 9005 749	Electrolytic 1uF/50V	
R151	963 9003 343	Metal film 68 ohm 1/4W		C141	963 0021 900	Mylar film 0.047uF/100V	
R154	963 0043 108	Metal film 2.2 Mohm 2W	for E3,EU	C142	963 0021 900	Mylar film 0.047uF/100V	
R179	963 9003 055	Metal film 47 kohm 1/4W		C143	963 0021 900	Mylar film 0.047uF/100V	
R181	963 0047 900	Metal film 4.7 kohm 1W		C144	963 9003 110	Electrolytic 4700uF/35V	
R185	963 9005 655	Metal film 22 ohm 1/4W		C145	963 9003 123	Electrolytic 1000uF/35V	
				C146	963 9005 749	Electrolytic 1uF/50V	
VR101	960 0091 601	Semi fixed resistor 1kohm		C148	963 9005 749	Electrolytic 1uF/50V	
VR102	960 0091 601	Semi fixed resistor 1kohm		C150	963 0021 900	Mylar film 0.047uF/100V	
VR103	960 0091 601	Semi fixed resistor 1kohm		C151	963 0021 900	Mylar film 0.047uF/100V	
VR104	960 0091 601	Semi fixed resistor 1kohm		C152	963 0021 900	Mylar film 0.047uF/100V	
VR105	960 0091 601	Semi fixed resistor 1kohm		C153	963 0021 104	Electrolytic 6800uF/16V	
				C154		Electrolytic 10uF/35V	
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Ref. No.	Part No.	Part Name	Remarks	New	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C157	963 9005 749	Electrolytic 1uF/50V			OTHER P	ARTS GROU	JP			_
C158		Electrolytic 1000uF/25V			CN601	963 0086 709	11P connector socket		1	
C159	1	Electrolytic 1uF/50V			CN602		5P connector socket		1	
C161		Electrolytic 10uF/35V			0.1002					
C171		Electrolytic 100uF/10V			CP101	960 0118 908	AC cord connector base		1	
C171A	963 0020 202	Ceramic 0.1uF/50V			CP102	960 0128 901		for E3,EU,E2,		
C171B	963 0020 202	Ceramic 0.1uF/50V			0. 102	000 0120 001	or connector bacc	E1C,E1K,EK,EA	1	
C171C	963 0020 202	Ceramic 0.1uF/50V				960 0128 901	3P connector base	for E1,E1H,E1T	1	
C172	963 9005 833	Electrolytic 220uF/6.3V			CP103	960 0128 901	3P connector base		1	
C173		Electrolytic 220uF/6.3V			CP104	960 0128 804	6P connector base		1	
C174	963 9005 752	Electrolytic 10uF/35V			CP105	960 0123 304	3P connector base	for E2,E1,		
C175		Electrolytic 4.7uF/50V						E1H,E1K,E1T	1	
C176		Electrolytic 1uF/50V			CP106	960 0123 207	3P connector base		1	
C177		Electrolytic 1uF/50V			CP501	963 0086 806	9P connector base		1	
C178		Electrolytic 330uF/63V			CP502-504	963 0086 903	5P connector base		3	
C181	963 0076 104		for E2,EK,EA		CP505	963 0087 009	6P connector base		1	
C182	963 9004 795	` ′			CP555	960 0239 609	13P connector base		1	
C191	963 9006 007	,	for E2,EK,EA	*	CP556	963 0087 805	11P connector base		1	
C192	963 9006 007	Ceramic 2200pF/16V	for E2,EK,EA	*	CP602,603	963 0086 903	5P connector base		2	
C193	963 9006 007	'	for E2,EK,EA	*	CP901	963 0048 909	3P connector base		1	
C194	963 9006 007	Ceramic 2200pF/16V	for E2,EK,EA	*	CP931	960 0123 304	3P connector base	for E2,E1,E1C,		
C195	963 9006 007	Ceramic 2200pF/16V	for E2,EK,EA	*				E1K,E1H,E1T	1	
C196	963 9006 007	Ceramic 2200pF/16V	for E2,EK,EA	*						
C197	963 9006 007	Ceramic 2200pF/16V	for E2,EK,EA	*	⚠ F101,102	960 0188 705	Fuse 125V-S8A	for E3,EU	2	
C197	960 9006 202	Ceramic 0.01uF/50V	for E2,EK,EA		1 ∕ ∆ F101	960 0142 602	Fuse 250V-S2.5A	for E2,E1K,EK,EA	1	
C198FL	960 9006 202	Ceramic 0.01uF/50V	for E2,EK,EA		<u></u> 1 F102	963 0044 709	Fuse 250V-S3.15A	for E2,E1C,		
C198FR	960 9006 202		for E2,EK,EA					E1K,EK,EA	1	
C198SL	960 9006 202		for E2,EK,EA		F101A,102A	960 0005 804	Fuse clip holder		2	
C198SR	960 9006 202		for E2,EK,EA			960 0005 804	'		2	
C1905I1	960 9006 202		for E2,EK,EA		F102A,F102B	960 0005 804	Fuse clip holder	for E1C	2	
C199FR	960 9006 202		for E2,EK,EA							
0199111	300 3000 202	Ceramic 0.0 rui /30 v	IOI LZ,LIN,LA		GND101-103	960 9006 600	Terminal		3	
C601	063 0004 530	Ceramic 100pF/50V								
C602		Electrolytic 47uF/10V			JK103		2P speaker terminal		1	L
C603	1	Electrolytic 47uF/10V			1 ∆ JK104	960 0187 803	AC outlet(2P)	for E3,EU	1	
C604		Electrolytic 47uF/10V				960 0143 203	AC outlet	for E2,EK,EA	1	
C605		Electrolytic 470uF/6.3V								
C606		Electrolytic 470uF/6.3V			L101C,FL,					
C607		Electrolytic 100uF/16V			FR,SL,SR	963 0049 005	Inductor 0.5uh		5	
C607		Ceramic 0.01uF/16V								
C612		Ceramic 0.047uF/50V					Relay G5PA-2		4	
C612					RLY105		Relay RSB24S		1	
C013	963 9004 562	Ceramic 0.047uF/50V			RLY106	960 0181 605	Relay G5PA-1-8		1	
					TP101-105	960 0161 405	3P connector base		1	
										l
							Ceramic 0.047uf/250V(AC)		1	
							SW Push block		1	
							8P Speaker terminal		1	l
						960 0194 508	1P Pin jack		1	l
						960 0194 605	2P Pin jack		1	l
						960 0188 404	3P Pin jack		1	
	1		1	1 1	1		Heat sink reg TR	1	11	1 4

CPU P.W.B. ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty N	lew	Ref. No.	Part No.	Part Name	Remarks
		Heat sink reg TR			*		IDUCTORS		
	_	Heat sink		1	*				
Λ	963 0094 924		for E3	1	*	IC201 IC202		IC CXP740096-156Q IC TDA7330BD	
<u>A</u>	963 0094 937		for E2,EK,EA	1	*	IC202		IC KIA7812AP	
<u>A</u>	963 0094 911		for E1C	1	*	10271	900 0222 300	IC NIA/012AF	
<u>v</u>	963 0094 940		for E1H	1	*	IC301	960 0180 004	IC I C757015	
Φ	963 0094 911		for E1K		*				
<u>₩</u>	963 0094 940		for E1T		*	IC302	963 0074 504		
<u>1</u>	963 0094 940		for E1		*	IC391	963 0064 905	IC GP1FA502RZ	
<u>₩</u>	963 0094 924		for EU		*	Q201	062 0075 000	Transistor DTC144FK	
<u> </u>		Screw 3x8 B-type ZNY/BH	101 20	1				Transistor DTC144EK	
		Screw 3x8 B-type ZNY/BH			- 1	Q202	963 0045 902	` ′	
	000 00 10 007	Colow oxo B type Zivi/Bil			- 1	Q251 Q252	963 0075 309 960 0196 603		
					- 1				
						Q253	960 0196 603	Transistor KTC2874B	
						Q310	963 0058 203	Transistor DTA114EK	
						Q311	963 0058 203	Transistor DTC114EK	
						Q312	963 0058 203	Transistor DTA114EK	
					- 1	Q313	963 0058 203	Transistor DTC114EK	
					- 1	Q314	963 0058 203	Transistor DTA114EK	
						Q315	963 0058 203	Transistor DTC114EK	
						D201	963 0096 605	Diode 1N4148WS	
					- 1	D202	963 0058 407		
					- 1	D203		Diode 1N4148-52RE	
					- 1	D204		Diode 1N4148WS	
					- 1	D204	963 0096 605		
					- 1	D205	963 0096 508		for E2,EK,EA
					-	D251	963 0058 407		IOI LZ,LIX,LA
						5201	000 0000 107	5.000 111.007	
					- 1	D302	963 0096 508	Diode 1N4148-52RE	
					- 1	D303	963 0096 508	Diode 1N4148-52RE	
					- 1	D304	963 0096 508	Diode 1N4148-52RE	
					- 1	D305	963 0096 605	Diode 1N4148WS	
					- 1	D308	963 0096 605	Diode 1N4148WS	
						D309	963 0096 605	Diode 1N4148WS	
						ZD201	963 0047 502	Zener diode MTZJ3.3B	
						ZD301	960 0095 802	Zener diode MTZJ6.8B	
						ZD331		Zener diode MTZJ5.1B	
						ZD332		Zener diode MTZJ5.1B	
						ZD332 ZD335		Zener diode MTZJ5.1B	
						ZD336		Zener diode MTZJ5.1B	
						LED301-304		LED HL50RDRF4T	
						LED306-309	960 0197 204	LED HL50RDRF4T	
	:	-	:		_	-	•		

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
RESISTO	RS GROUP			RP06	963 9004 397	Carbon chip 56 kohm 1/16W	
R202	963 9003 398	Carbon chip 1 kohm 1/16W		RP07	963 9004 397	Carbon chip 56 kohm 1/16W	
R203	963 9004 342	'		RP08	963 9004 397	Carbon chip 56 kohm 1/16W	
R204	963 9004 342	· ·		RP09	963 9004 397	Carbon chip 56 kohm 1/16W	
R205	963 9004 070	Carbon chip 10 kohm 1/16W		RP10	963 9004 397	Carbon chip 56 kohm 1/16W	
R206	963 9004 232	· ·		RP11	963 9004 397	Carbon chip 56 kohm 1/16W	
R209	963 9004 083	· ·		RP12	963 9004 397	Carbon chip 56 kohm 1/16W	
R211	963 9004 070	Carbon chip 10 kohm 1/16W		RP13	963 9004 397	Carbon chip 56 kohm 1/16W	
R212	963 9003 398	·		RP14	963 9004 397	Carbon chip 56 kohm 1/16W	
R213	963 9004 122	'		RP15	963 9004 397	Carbon chip 56 kohm 1/16W	
R214	963 9004 122	'		RP16	963 9004 397	Carbon chip 56 kohm 1/16W	
R215	963 9004 122	'		RP17	963 9004 397	Carbon chip 56 kohm 1/16W	
R216	963 9004 070	'	for E3,E2,EK,EA,EU	RP18	963 9004 397	· ·	
R217	963 9004 070	· ·	101 20,22,214,274,20	RP19	963 9004 397	Carbon chip 56 kohm 1/16W	
R218	963 9004 177	· ·	for E2,EK,EA	RP20	963 9004 397	· '	
11210	963 9004 070	'	for E1,E1C,E1H,E1K,E1T	RP21	963 9004 397	Carbon chip 56 kohm 1/16W	
R219	963 9004 177	Carbon chip 18 kohm 1/16W	for E2,EK,EA	RP22	963 9004 397	· ·	
R220	963 9004 070	'	IOI LZ,LIX,LA	RP23	963 9004 397	'	
R225	963 9004 070	'	for E2 EK EA	RP24	963 9004 397	i i	
R241	963 9004 339	Carbon chip 470 ohm 1/16W	IOI LZ,LIX,LA	RP25	963 9004 397	'	
R242	963 9004 339	Carbon chip 470 ohm 1/16W		RP26	963 9004 397	· ·	
R242	963 9004 339	Carbon chip 470 ohm 1/16W		RP27	963 9004 397	· ·	
		'		RP28	963 9004 397	'	
R244	963 9004 339	Carbon chip 470 ohm 1/16W		RP29	963 9004 397	· ·	
R245	963 9004 339	Carbon chip 470 ohm 1/16W		RP30	963 9004 397	· ·	
R246	963 9004 339	Carbon chip 470 ohm 1/16W		RP31	963 9004 397	Carbon chip 56 kohm 1/16W	
R271	963 9005 626			RP32	963 9004 397	Carbon chip 56 kohm 1/16W	
R281 R282	963 9004 070 963 9004 070	Carbon chip 10 kohm 1/16W		RP33	963 9004 397	Carbon chip 56 kohm 1/16W	
		Carbon chip 10 kohm 1/16W		RP34	963 9004 397	Carbon chip 56 kohm 1/16W	
R283	963 9004 070	Carbon chip 10 kohm 1/16W		RP35	963 9004 397	Carbon chip 56 kohm 1/16W	
DOOED	060 0004 047	Carbon abin 2.2 kabm 1/16W		RP36	963 9004 397	Carbon chip 56 kohm 1/16W	
R305B	963 9004 847	Carbon chip 3.3 kohm 1/16W		RP37	963 9004 397	Carbon chip 56 kohm 1/16W	
R312	963 9004 070 963 0075 105	'		RP38	963 9004 397	Carbon chip 56 kohm 1/16W	
R315		'		111 00	300 3004 037	Carbon only 30 Konin 1/10**	
R321		Carbon chip 680 ohm 1/16W					
R322	1	Carbon chip 680 ohm 1/16W		CAPACIT	ORS GROU	P	
R323		Carbon chip 680 ohm 1/16W		BC201	963 0061 504	Electrolytic 8200uF/5.5V	
R324	963 9004 436	'					
R326	963 9004 436	'		C201	963 9004 698	Ceramic chip 0.01uF/50V	
R327	963 9004 436	'		C202	963 9004 711	Ceramic chip 0.1uF/50V	
R328	963 9004 436	'		C203	963 9004 698	Ceramic chip 0.01uF/50V	
R329	963 9004 436	'		C204	963 9005 914	Electrolytic 4.7uF/50V	
R381	963 9004 465	'		C205	963 9004 711	Ceramic chip 0.1uF/50V	
R382	963 9004 339	·		C206	096 3905 309	Electrolytic 47uF/10V	for E2,EK,EA
R383	963 9004 339	Carbon chip 470 ohm 1/16W		C207	963 9004 546	Ceramic 0.01uF/16V	for E2,EK,EA
R384	963 9004 245	'		C208	963 9005 354	Ceramic chip 270pF/50V	for E2,EK,EA
R385	963 9004 245	Carbon chip 2.2 Mohm 1/16W		C209	963 9005 752	Electrolytic 10uF/35V	for E2,EK,EA
DCC4	000 000 : 55-	Out and the soul is a second		C210	963 9004 698	Ceramic chip 0.01uF/50V	for E2,EK,EA
RG01	963 9004 397	Carbon chip 56 kohm 1/16W		C211	963 9004 614	Ceramic chip 27pF/50V	for E2,EK,EA
RP02	963 9004 397	Carbon chip 56 kohm 1/16W		C212	963 9004 614	Ceramic chip 27pF/50V	for E2,EK,EA
RP03	963 9004 397	Carbon chip 56 kohm 1/16W		C221		Electrolytic 100uF/10V	
RP04	963 9004 397	Carbon chip 56 kohm 1/16W		C251	963 9005 927	,	
RP05	963 9004 397	Carbon chip 56 kohm 1/16W					

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C262	963 9004 575				ARTS GROU	JP		
C263	963 9004 575			BD201,202	963 0053 800	Beads inductor		2
C264	963 9004 575	' ']				-
C265		Ceramic chip 100pF/50V		CN201	963 0096 906	6P wire		1
C266		Ceramic chip 100pF/50V		CN202	963 0099 408			1
C267	963 9004 575			CN302	963 0096 702			1
C207		Electrolytic 100uF/16V		CN931	963 0089 502		for E2,E1,G1C,G1H,	'
C272		Electrolytic 10uF/35V		011001	000 0000 002		G1K,G1T,EK,EA	1
0212	900 9000 702	Liectrolytic Tour 700 v						
C301	963 9005 778	Electrolytic 10uF/50V		CP201	963 0097 604	6P connector base		1
C302		Ceramic chip 0.047uF/50V		CP202	963 0050 104	4P connector base		1
C303		Electrolytic 47uF/10V		CP301A	963 0097 905	20P connector base		1
C304	960 9003 108	· · · · · · · · · · · · · · · · · · ·		CP301B	960 0129 007	20P FFC connector base		1
C305		Electrolytic 47uF/16V		CP303	963 0049 102	3P connector base		1
C306	963 9004 766	·		CP401	963 0088 008	10P connector base		1
C307		Electrolytic 1uF/50V		CP402	963 0097 507	15P connector base		1
C308		Mylar film 0.047uF/100V		CP552	960 0239 609	13P connector base		1
C309		Mylar film 0.047uF/100V		CP553	963 0088 008	10P connector base		1
C310		Electrolytic 1uF/50V		CP601	963 0087 805	11P connector base		1
C310		Ceramic chip 30pF/50V		CP701	963 0087 504	19P connector base		1
C311		Electrolytic 47uF/16V		CP702	963 0087 902			1
C312		Mylar film 0.047uF/63V		CP703	963 0088 008			1
C321	963 9004 685	*		CP801	963 0087 407	16P connector base		1
C321	963 9004 665	· · ·		CP802	963 0087 504	19P connector base		1
C324	963 9004 575			CP803	963 0097 400	8P connector base		1
C325	963 9004 575							
C331	963 9004 698			FL301	960 0180 509	FI 16-ST-42GNK		1
C331	963 9004 698	'						
C335	963 9004 698	·		G301	963 0088 202	1P contact ass'y		1
C336	963 9004 698	i i						
C381		Electrolytic 47uF/10V		JK301	963 0084 206	3P jack		1
C382	963 9004 575	·						
C383	963 9004 575			L301	960 0128 008	Inductor 100uh		1
C384		Electrolytic 1uF/50V		L302	960 0010 307	Inductor 10uh		1
C385		Electrolytic 1uF/50V		L391	960 0215 908	Inductor 4.7uh		1
C386		Ceramic chip 0.047uF/50V						
C391	963 9004 591	'		RMC301	960 0181 100	Remocon module		1
C392		Ceramic chip 0.1uF/50V						
C393		Electrolytic 47uF/16V		SW301B-309B	963 0095 305	Tact SW		9
0000	000 0000 000	Libotronytto 17 di 710 V		SW301C-309C	963 0045 708	Tact SW		9
C931	963 0076 104	Ceramic 0.047uF/250V(AC)		SW302A-304A	963 0095 305	Tact SW		3
		(10)		SW305A	963 0045 708	Tact SW		1
				SW931	963 0098 807	SW push	for E2,E1,G1C,G1H	,
							G1K,G1T,EK,EA	. 1
				VEC301,302	963 0095 208	Encoder SW		2
				X201	960 0181 003	Ceramic resonator CST12.0MTW		1
				X202	963 0099 505	Crystal 4.332MHz	for E2,EK,EA	1
					_	Heat sink		1
					963 0018 007	Screw 3x8 B-type ZNY/BH		1
					960 0184 408	FLT holder		1

CNT P.W.B. ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICO	NDUCTORS (GROUP		Q626	960 0005 202	Transistor KTC3198Y	
IC401	963 0043 700	IC LC72131-PLL		Q627	960 0196 904	Transistor DTC114YS	
IC402	963 0043 904	IC LA1266		Q628	960 0196 904	Transistor DTC114YS	
IC403	963 0044 000			Q651	960 0005 105	Transistor KTA1266Y	for E3,EU
				Q652	960 0005 105	Transistor KTA1266Y	for E3,EU
IC621	960 0180 101	IC LA7952		Q653	960 0005 105	Transistor KTA1266Y	for E3,EU
IC622	960 0180 101			11			
IC651	960 0175 200		for E3,EU	D403	963 0096 605	Diode 1N4148WS	
IC652	963 0083 304		for E3,EU	D404	963 0096 508	Diode 1N4148-52RE	
IC653	963 0083 304		for E3,EU	D405	963 0096 605	Diode 1N4148WS	
10000	000 0000 004	10 5/1/020	101 20,20	D406	963 0096 605	Diode 1N4148WS	
Q401	963 0099 301	Transistor KTC3880S-O		11			
Q402	963 0079 305			D551	963 0096 508	Diode 1N4148-52RE	
Q403	963 0058 203			D552	963 0096 508		
Q404	963 0058 203			D553	963 0096 508		
				D554	963 0096 508		
Q405	960 0196 603			D555	963 0096 508		
Q406 Q407	960 0196 603			D556	963 0096 508		
	963 0079 305			D557	963 0096 508		
Q408	963 0058 203		for E0 E1/ E4	D558	963 0096 508		
Q409	963 0099 301	Transistor KTC3880S-O	for E2,EK,EA	D559	963 0096 508		
05040	000 0400 000	T		D560	963 0096 508		
Q501C		Transistor KTC2874B		D561	963 0096 508		
Q501FL		Transistor KTC2874B		11			
Q501FR		Transistor KTC2874B		D562	963 0058 407		
Q501SL	960 0196 603			D563	963 0058 407		
Q501SR	960 0196 603			D564	960 0095 500		
Q502C	960 0196 205	Transistor KSA992F		D565	963 0096 508	Diode 1N4148-52RE	
Q502FL	960 0196 205]	200 2000 500	B: 1 4N4440 50D5	
Q502FR	960 0196 205	Transistor KSA992F		D621		Diode 1N4148-52RE	
Q502SL	960 0196 205			D622	963 0096 508	Diode 1N4148-52RE	
Q502SR	960 0196 205	Transistor KSA992F					
Q503C	960 0196 205	Transistor KSA992F		ZD341	960 0095 500		
Q503FL	960 0196 205	Transistor KSA992F		ZD342	960 0095 500	Zener diode MTZJ5.1B	
Q503FR	960 0196 205	Transistor KSA992F		II			
Q503SL	960 0196 205	Transistor KSA992F		ZD401	960 0095 500	Zener diode MTZJ5.1B	
Q503SR	960 0196 205	Transistor KSA992F		H			
Q504C	960 0196 506	Transistor KSC1845F		RESISTO	RS GROUP		
Q504FL	960 0196 506	Transistor KSC1845F		R401	963 9004 821	Carbon chip 10 ohm 1/16W	
Q504FR	960 0196 506	Transistor KSC1845F		R403	963 9004 339	· ·	
Q504SL	960 0196 506	Transistor KSC1845F		R404	963 9004 083	'	
Q504SR	960 0196 506	Transistor KSC1845F		R405	960 9003 807	Metal film 100 ohm 1/4W	
Q551	960 0196 700	Transistor KTC3200BL		R406			
Q552	960 0196 302	Transistor KTA1268BL		11	963 9004 342	· ·	for EQ ELL
Q553	963 0075 309	Transistor DTA114ES		R407	963 9004 339	· '	for E3,EU
Q554	963 0075 309	Transistor DTA114ES			903 9005 008	Carbon chip 620 ohm 1/16W	for E2,E1,E1C,E1H, E1K,E1T,EK,EA
Q555	963 0075 309	Transistor DTA114ES		R408	963 9004 119	Carbon chip 1.2 kohm 1/16W	
Q621	960 0005 202	Transistor KTC3198Y			963 9004 436	Carbon chip 680 ohm 1/16W	for E2,EK,EA
Q622	960 0005 202			R409	963 9004 339	· ·	
Q623		Transistor DTC114YS		R411	963 9005 011	·	
Q624	960 0196 904			R412	963 9004 834	· ·	
Q625		Transistor KTC3198Y		R413		Metal film 220 ohm 1/4W	
~~~				''''	555 5555 555	motar min 220 omil 1/4VV	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R414	963 9004 216	Carbon chip 2.2 kohm 1/16W	Tromain.c	R481FR	963 9004 245		
R415	963 9003 398	Carbon chip 1 kohm 1/16W		R481SL	963 9004 245	· ·	
R416	963 9005 561	Metal oxide 680 ohm 1W		R481SR	963 9004 245	i i	
R417	963 9003 398	Carbon chip 1 kohm 1/16W		R481SW	963 9004 245	Carbon chip 2.2 Mohm 1/16W	
R418	963 9004 274	Carbon chip 33 kohm 1/16W		R482C	963 9003 385	Carbon chip 100 ohm 1/16W	
R420	963 9004 847	Carbon chip 3.3 kohm 1/16W		R482FL	963 9003 385	Carbon chip 100 ohm 1/16W	
R426	963 9004 070			R482FR	963 9003 385	i i	
R427	963 9004 070			R482SL	963 9003 385	'	
R429	963 9004 850			R482SR	963 9003 385	i i	
R430	960 9003 807	Metal film 100 ohm 1/4W		R482SW	963 9003 385	Carbon chip 100 ohm 1/16W	
R431	963 9004 371	Carbon chip 5.1 kohm 1/16W				·	
R432	963 9004 070	Carbon chip 10 kohm 1/16W		R509C	960 9005 902	Metal film 1.2 kohm 1/4W	
R434	960 9003 807	Metal film 100 ohm 1/4W		R509FL	960 9005 902	Metal film 1.2 kohm 1/4W	
R435	963 9004 847	Carbon chip 3.3 kohm 1/16W		R509FR	960 9005 902	Metal film 1.2 kohm 1/4W	
R437	963 9004 083	Carbon chip 100 kohm 1/16W		R509SL	960 9005 902	Metal film 1.2 kohm 1/4W	
R438	963 9004 083	Carbon chip 100 kohm 1/16W	for E3,EU,E1,E1C,	R509SR	960 9005 902	Metal film 1.2 kohm 1/4W	
			E1H,E1K,E1T	R511C	960 9004 301	Metal film 47 ohm 1/4W	
	963 9004 164	Carbon chip 150 kohm 1/16W	for E2,EK,EA	R511FL	960 9004 301	Metal film 47 ohm 1/4W	
R439	963 9004 083	Carbon chip 100 kohm 1/16W		R511FR	960 9004 301	Metal film 47 ohm 1/4W	
			E1H,E1K,E1T	R511SL	960 9004 301	Metal film 47 ohm 1/4W	
	963 9004 164	Carbon chip 150 kohm 1/16W	· · ·	R511SR	960 9004 301	Metal film 47 ohm 1/4W	
R440	963 9004 863	Carbon chip 120 kohm 1/16W		R559	963 9005 642	Metal film 1.2 kohm 1W	
	963 9004 232	Carbon chip 220 kohm 1/16W	E1H,E1K,E1T	R565	963 9005 642	Metal film 1.2 kohm 1W	
R441	963 9004 232	· ·		R570	963 9005 642	Metal film 1.2 kohm 1W	
11441	300 3004 000	Carbon chip 120 Konin 1/10	E1H,E1K,E1T				
	963 9004 232	Carbon chip 220 kohm 1/16W		R621	963 9004 465	Carbon chip 75 ohm 1/16W	
R442	963 9004 847	Carbon chip 3.3 kohm 1/16W	· · ·	R622	963 9004 465	Carbon chip 75 ohm 1/16W	
		·	E1H,E1K,E1T	R623	963 9004 465	Carbon chip 75 ohm 1/16W	
	963 9004 216	Carbon chip 2.2 kohm 1/16W	for E2,EK,EA	R624	963 9004 465	Carbon chip 75 ohm 1/16W	
R443	963 9004 847	Carbon chip 3.3 kohm 1/16W	for E3,E1,E1C,E1H,	R625	963 9004 465	Carbon chip 75 ohm 1/16W	
			E1K,E1T,EU	R626	963 9004 465	'	
	963 9004 216	'	for E2,EK,EA	R627		Carbon chip 68 ohm 1/16W	
R444	963 9004 481	Carbon chip 8.2 kohm 1/16W	for E3,EU,E1,E1C, E1H,E1K,E1T	R628		Carbon chip 10 kohm 1/16W	
	963 9004 847	Carbon chip 3.3 kohm 1/16W	· · ·	R630		Carbon chip 68 ohm 1/16W	
R445	963 9004 481	· ·		R631		Carbon chip 10 kohm 1/16W	
11110	000 0004 401	Carbon only 6.2 Rollin 17 10W	E1H,E1K,E1T	R634		Carbon chip 10 kohm 1/16W	
	963 9004 847	Carbon chip 3.3 kohm 1/16W	for E2,EK,EA	R635		Carbon film 390 ohm 1/5W	
R448	963 9004 216	Carbon chip 2.2 kohm 1/16W		R637	963 9004 070	Carbon chip 10 kohm 1/16W	
R449	963 9005 037	Carbon chip 3.9 kohm 1/16W	for E2,EK,EA	R641	963 9004 465	Carbon chip 75 ohm 1/16W	
R450	963 9003 398	Carbon chip 1 kohm 1/16W	for E2,EK,EA	D004	000 0000 070	Matal film 470 along 0W	
R455	963 9004 876	Carbon chip 330 ohm 1/16W		R901		Metal film 470 ohm 2W	
R456	963 9003 385	Carbon chip 100 ohm 1/16W		R902	960 9009 270	Metal film 470 ohm 2W	
R470	963 9003 398	Carbon chip 1 kohm 1/16W		VR401	060 0006 606	Semi fixed resistor 20kohm	
R471VT	963 9004 203	Carbon chip 220 ohm 1/16W		VR401 VR402	960 0096 606 963 0056 205	Semi fixed resistor 50kohm	for E3,E1,E1C,E1H,
R472	963 9003 385	Carbon chip 100 ohm 1/16W	for E2,EK,EA	V11402	300 0030 203	COM IIACU ICOIOLUI DUNUIIIII	E1K,E1T,EU
R474	963 9004 889	Carbon chip 180 ohm 1/16W	for E2,EK,EA		960 0096 402	Semi fixed resistor 100kohm	for E2,EK,EA
R475	963 9004 122	Carbon chip 12 kohm 1/16W		VR403	963 0052 005	Semi fixed resistor 200kohm	, ,
R476	963 9004 397	· ·					
R478	963 9004 070	Carbon chip 10 kohm 1/16W					
R479	963 9004 083						
R481C	963 9004 245	'					
R481FL	963 9004 245	Carbon chip 2.2 Mohm 1/16W					

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
-	ORS GROU				963 9005 448		for E2,EK,EA
C341		Ceramic 0.01uF/16V			963 9004 931	· '	for E1,E1C,E1H,E1K,E1T
C342		Ceramic 0.01uF/16V		C448	963 9004 960	· '	for E3,EU
0012	000 0004 040	Cordinio o.ordi / 10 v			963 9005 448	'	for E1,E1C,E1H,E1K,E1T
C401	963 9004 685	Ceramic chip 1000pF/50V		C449	963 9004 960	· ·	for E3,EU
C402	963 9004 685					Ceramic 330pF/50V	for E1,E1C,E1H,E1K,E1T
C403	963 9004 737	, ,		C450		Electrolytic 10uF/35V	
C404		Ceramic 2pF/50V		C451		Electrolytic 10uF/35V	
C405	963 9004 737	l		C453		Ceramic chip 27pF/50V	
C406	963 9004 902	,		C456		Ceramic chip 680pF/50V	
C408	960 9004 709	, ,		C461		Ceramic chip 22pF/50V	
C409	963 9004 520	Ceramic 100pF/50V		C462		Ceramic chip 470pF/50V	for E2,EK,EA
C410	963 9004 915	'		C463		Mylar film 0.056uF/100V	,
C411	963 9004 685	· ·		C464		Ceramic 3pF/50V	
C412	963 9004 737	, ,		C471VT		Electrolytic 1uF/50V	
C413	963 9004 575	· ·		C472VT		Ceramic chip 0.047uF/50V	
C414	963 9005 846			C481C	963 9004 575	· '	
C415		Electrolytic 47uF/16V		C481FL	963 9004 575	· · ·	
C416	963 9005 765	*		C481FR	963 9004 575	· · ·	
C417	963 9005 794	,		C481SL	963 9004 575	· · ·	
C417	963 9004 698	,		C481SR	963 9004 575	· · ·	
C418		Electrolytic 10uF/35V		C481SW	963 9004 575	· · ·	
C419 C420	963 9003 763	,		0.01011	000 000 1 070	Coldinio omp 100p17001	
C420	963 9005 998	, ,		C501C	963 9005 820	Electrolytic 22uF/16V	
C421	963 9004 737	, ,		C501FL		Electrolytic 22uF/16V	
C423	963 9004 737	·		C501FR	963 9005 820		
C424 C425		'		C501M	963 9005 765	1	
C425 C426	963 9005 914	Electrolytic 4.7uF/50V Electrolytic 3.3uF/50V		C501SL	963 9005 820	1	
C420 C427	963 9005 914	-		C501SR	963 9005 820	1	
C427	963 9003 914	Electrolytic 4.7uF/50V  Ceramic chip 0.022uF/25V		C502C	963 9005 765	'	
C420	963 0021 900	· ·		C502FL		Electrolytic 10uF/35V	
C430	963 9004 627	1		C502FR		Electrolytic 10uF/35V	
C431		Electrolytic 47uF/16V		C502SL		Electrolytic 10uF/35V	
C433		Ceramic chip 0.022uF/25V		C502SR		Electrolytic 10uF/35V	
C434		Electrolytic 1uF/50V	for E3,EU	C503C		Ceramic 220pF/500V	
0404		Electrolytic 0.33uF/50V	for E2,E1,E1C,E1H,	C503FL		Ceramic 220pF/500V	
	903 9003 903	Liectrolytic 0.33ur/30V	E1K,E1T,EK,EA	C503FR		Ceramic 220pF/500V	
C435	963 9004 737	Ceramic chip 0.022uF/25V	, , ,	C503SL	963 9003 165	· '	
C436	963 9004 737	,		C503SR	963 9003 165	'	
C437		Electrolytic 47uF/16V		C504C	963 9003 178	'	
C438		Electrolytic 1uF/50V		C504FL	963 9003 178	'	
C439		Electrolytic 0.22uF/50V		C504FR		Ceramic 220pF/50V	
C440		Electrolytic 1uF/50V		C504SL		Ceramic 220pF/50V	
C441		Electrolytic 1uF/50V		C504SR		Ceramic 220pF/50V	
C442	1	Electrolytic 2.2uF/50V		C505C	963 9003 181	'	
C443		Electrolytic 10uF/35V		C505FL	963 9003 181	· '	
C444	963 9005 914	·		C505FR	963 9003 181		
C445		Electrolytic 10uF/35V		C505SL	963 9003 181	'	
C446	963 9005 053	·	for E3,EU	C505SR	963 9003 181		
55		Ceramic 330pF/50V	for E2,EK,EA	C506C		Electrolytic 100uF/10V	
	963 9004 931	'	for E1,E1C,E1H,E1K,E1T	C506FL		Electrolytic 100uF/10V	
C447		Ceramic 270pF/50V	for E3,EU	C506FR		Electrolytic 100uF/10V	
J	355 5555 555			3000111	000 0000 012	=100tiorytio 100di / 10V	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	s
C506SL		Electrolytic 100uF/10V		C691	963 9005 749			
C506SR		Electrolytic 100uF/10V		C692	963 9005 749	'		
C507C	963 9003 194	•		C693	963 9003 108	'		
C507FL	963 9003 194	,		C694	963 9005 312			
C507FR	963 9003 194	•						
C507SL	963 9003 194	*		C901	963 9004 533	Ceramic 0.001uF/50V		
C507SR	963 9003 194	,		C902	963 9004 533			
C551		Electrolytic 2.2uF/50V		C903		Electrolytic 1uF/50V		
C551M	963 9005 817	•		C904		Ceramic 0.022uF/25V		
C551S	963 9004 562	,						
C552	963 9005 927							
C553	963 9005 927	•		OTHER P	ARTS GROU	JP		Q'ty
C554		Electrolytic 0.1uF/50V		CF401,402	960 0187 104	Ceramic filter	for E3,EU	2
C555		Ceramic 0.01uF/16V		CF401,402	960 0177 509	Ceramic filter	for E2,EK,EA	2
C556		Ceramic 0.01uF/16V		CF401	960 0187 104	Ceramic filter	for E1,E1,b,	
C557		Electrolytic 10uF/35V					E1K,E1H,E1T	1
0007	000 0000 702	Liberary no Tour 700 V		CF402	960 0177 509	Ceramic filter	for E1,E1,b,	١.
C621	963 9005 309	Electrolytic 47uF/10V		05400	000 0407 000	0	E1K,E1H,E1T	1
C622		Electrolytic 47uF/10V		CF403	960 0187 609	Ceramic resonator		1
C623		Electrolytic 47uF/10V		ONIOGO				١.
C624	963 9005 891	,		CN392	963 0087 300			1
C625	963 9005 891	•		CN401	963 0085 409			1
C626		Electrolytic 47uF/10V		CN402	963 0097 303			1
C627		Electrolytic 47uF/10V		CN501		9P connector socket		1
C628		Electrolytic 47uF/10V		CN502-504		5P connector socket		3
C629	963 9005 891	•		CN505		6P connector socket		1
C630	963 9005 891	,		CN552	960 0239 900			1
C631	963 9005 794	,		CN553	963 0085 409			1
C632	963 9004 753	,		CN555	960 0239 900			1
C633	963 9004 753	•		CN554	963 0097 002			1
C634	963 9005 749	•		CN556		11P connector socket		1
C635		Electrolytic 1uF/50V		CN603		5P connector socket		1
C651		Electrolytic 4.7uF/50V		CN621		5P connector socket	, 50 511	1
C652		Electrolytic 4.7uF/50V		CN651		5P connector socket	for E3,EU	1
C653		Electrolytic 4.7uF/50V		CN901	963 0090 902	3P wire		1
C654		Electrolytic 4.7uF/50V		00000				١.
C655		Electrolytic 4.7uF/50V		CP302		6P connector base		1
C656		Electrolytic 4.7uF/50V		CP392		3P connector base		1
C657		Electrolytic 4700uF/6.3V		CP551	963 0097 701			1
C658		Electrolytic 470uF/6.3V		CP554	963 0097 808			1
C659		Electrolytic 470uF/6.3V		CP621		5P connector base	f F0 F11	1
C660		Electrolytic 100uF/10V		CP651	963 0086 903	5P connector base	for E3,EU	1
C661		Electrolytic 100uF/10V		55404	000 0407 700	E		١.
C662		Electrolytic 100uF/10V		FE401	960 0187 706	Front end FTE4-401TB		1
C671		Electrolytic 1uF/50V		0.404		15		١.
C671		Electrolytic 1uF/50V		G401		1P contact ass'y		1
C672		Ceramic 0.022uF/25V		G901	_	1P contact ass'y		1
C674		Electrolytic 100uF/10V		11/22	000 0005 15	<u></u>		.
C674 C681		Electrolytic 1uF/50V		JK901	963 0095 402	Head phone jack		1
C682		Electrolytic 1uF/50V		1.40	000 00=0 15=	<u>                                     </u>		.
C683		Ceramic 0.022uF/25V		L401	963 0052 102			1
C684				L402		Inductor 10uh		1
0004	300 3000 312	Electrolytic 100uF/10V		L403	963 0056 409	If MW coil		1

## **INPUT VOLUME P.W.B. ASS'Y**

			I	_			P.W.B. ASS'Y	
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks
SW901	960 0176 209	Push SW	for E3,EU	1	SEMICON	IDUCTORS	GROUP	
					IC701	963 0096 401	IC BD3811K1	
T401		If MW coil PCFMAF-270		1	IC721	963 0024 004	IC NJM2068M	
T402		If FM coil M292MEA-K5611FKG		1	IC761	963 0024 004	IC NJM2068M	
T403	960 0007 352	If FM coil 292MEA-K5612X		1	IC762	963 0024 004	IC NJM2068M	
T404	960 0071 207	MPX filter	for E2,EK,EA	1	IC763	963 0024 004	IC NJM2068M	
T405	960 0071 207	MPX filter	for E2,EK,EA	1	IC781	963 0024 004	IC NJM2068M	
T406	960 0037 607	Antibirdie filter	for E2,EK,EA	1	IC782	963 0024 004	IC NJM2068M	
					IC783	963 0024 004	IC NJM2068M	
VEC000	000 0005 000	Franks CW			Q751		Transistor DTC144ES	
VEC303	963 0095 208	Encoder SW		1	Q752	963 0075 503		
V404	000 0000 407	0		1,1	Q753	960 0196 807		
X401		Crystal 7.2MHz		1	Q754	960 0196 807		
X402	963 0043 302	Ceramic resonator CSB456F11		1	Q755	963 0075 503		
				1 . I	Q756	963 0075 309	Transistor DTA114ES	
		3P antenna terminal		1	Q757	960 0196 807	Transistor 2SK117Y	
	963 0099 204		for E3,EU	1	Q758	960 0196 807		
	960 0181 304			1 1	Q771	963 0075 503		
	960 0181 401			1	Q772	963 0075 309	Transistor DTA114ES	
	960 0188 307			1	Q773	960 0196 807	Transistor 2SK117Y	
	960 0188 404			1	Q774	960 0196 807	Transistor 2SK117Y	
	960 0184 000			4				
		Tuner pack shield		1	D751	963 0096 605	Diode 1N4148WS	
	963 0099 000	Earth "D"plate		1	D752	963 0096 605	Diode 1N4148WS	
					D753	963 0096 605	Diode 1N4148WS	
					D754	963 0096 605	Diode 1N4148WS	
					D771	963 0096 605	Diode 1N4148WS	
					D772	963 0096 605	Diode 1N4148WS	
					ZD701	960 0222 603	Zener diode MTZJ7.5A	
					ZD702		Zener diode MTZJ7.5A	
					DESISTO	RS GROUP		
					R701L	I	Carbon chip 470 ohm 1/16W	
					1	963 9004 339	'	
					R701R	963 9004 339	Carbon chip 470 ohm 1/16W	
					R702L R702R	963 9004 339 963 9004 339	Carbon chip 470 ohm 1/16W	
					R702R R703L	963 9004 339	Carbon chip 470 ohm 1/16W	
					1		'	
					R703R	963 9004 339	· '	
					R704L	963 9004 339	Carbon chip 470 ohm 1/16W	
					R704R	963 9004 339	'	
					R705L	963 9004 339	· '	
					R705R	963 9004 339	'	
					R706L	963 9004 339	'	
					R706R	963 9004 339	'	
					R707L	963 9004 339	'	
					R707R	963 9004 339	· '	
					R708L	963 9004 339	· '	
					R708R	963 9004 339	· '	
					R711L	963 9004 245	· '	
					R711R	963 9004 245	Carbon chip 2.2 Mohm 1/16W	

				<u> </u>			
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R712L	963 9004 245	· ·		R763SW	963 9004 834	'	
R712R	963 9004 245	·		R764FL	963 9004 410	'	
R713L	963 9004 245			R764FR		Carbon chip 6.2 kohm 1/16W	
R713R	963 9004 245	·		R765FL	963 9004 151	'	
R714L	963 9004 245	·		R765FR	963 9004 151	'	
R714R	963 9004 245	·		R765SW		Carbon chip 7.5 kohm 1/16W	
R715L	963 9004 245	·		R766FL	963 9003 385	'	
R715R	963 9004 245			R766FR	963 9003 385	'	
R716L	963 9004 245	·		R766SW	963 9003 385	'	
R716R	963 9004 245	·		R767FL	963 9004 083	'	
R717L	963 9004 245	·		R767FR	963 9004 083	'	
R717R	963 9004 245	·		R767SW	963 9004 083	'	
R718L	963 9004 245	·		R771	963 9005 639		
R718R	963 9004 245	·		R772	963 9005 639		
R722L	963 9004 083	·		R773	963 9004 216	'	
R722R	963 9004 083	Carbon chip 100 kohm 1/16W		R774	963 9004 070	'	
R723L	963 9004 083	'		R782C	963 9003 385	'	
R723R	963 9004 083	·		R782FL	963 9003 385	'	
R724L	963 9003 385	·		R782FR	963 9003 385	'	
R724R	963 9003 385	·		R782SL	963 9003 385	'	
R725L	963 9004 300	·		R782SR	963 9003 385	'	
R725R	963 9004 300	·		R782SW	963 9003 385	'	
R726L	963 9004 300	·		R783C	963 9004 355	'	
R726R	963 9004 300	·		R783FL	963 9004 355	'	
R727L	963 9004 300	·		R783FR	963 9004 355	'	
R727R	963 9004 300	·		R783SL	963 9004 355	'	
R728L	963 9003 385			R783SR	963 9004 355	'	
R728R	963 9003 385	·		R783SW	963 9004 355	'	
R729L	963 9004 083	Carbon chip 100 kohm 1/16W		R784C	963 9005 684	'	
R729R	963 9004 083			R784FL	963 9004 478	'	
R731	963 9005 668			R784FR	963 9004 478	'	
R732	963 9005 668			R784SL	963 9005 684	'	
R733	963 9004 342			R784SR	963 9005 684	'	
R734	963 9004 342	l _		R784SW	963 9004 122	l	
R741	963 9004 339			R786C		Carbon chip 2.2 kohm 1/16W	
R742	963 9004 339	·		R786FL	963 9005 671	'	
R743	963 9004 339			R786FR	963 9005 671	'	
R751	963 9004 216			R786SL		Carbon chip 2.2 kohm 1/16W	
R752	963 9004 070	·		R786SR		Carbon chip 2.2 kohm 1/16W	
R756	963 9004 216			R786SW	963 9005 008	'	
R757	963 9004 070	·		R787SW	963 9004 083	'	
R761C	963 9003 385	·		R788C	963 9004 339	'	
R761FL	963 9005 707	·		R788FL	963 9004 339	'	
R761FR	963 9005 707	Carbon chip 3.6 kohm 1/16W		R788FR	963 9004 339	'	
R761SL	963 9003 385	·		R788SL	963 9004 339	'	
R761SR	963 9003 385	'		R788SR		Carbon chip 470 ohm 1/16W	
R761SW	963 9005 037			R788SW		Carbon chip 1 kohm 1/16W	
R762FL	963 9004 342			R791		Metal film 100 ohm 1W	
R762FR	963 9004 342	·		R792	963 9005 639	Metal film 100 ohm 1W	
R762SW	963 9004 449						
R763FL	963 9004 151	·					
R763FR	963 9004 151	Carbon chip 15 kohm 1/16W					
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Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	ORS GROUI			C762FR	963 9004 575		
C701L		Ceramic chip 100pF/50V	for E2,EK,EA	C762SW	963 9004 575	· · ·	
C701R	963 9004 575		for E2,EK,EA	C763FL		Ceramic chip 0.047uF/50V	
C702L	963 9004 575	' '	for E2,EK,EA	C763FR		Ceramic chip 0.047uF/50V	
C702R	963 9004 575		for E2,EK,EA	C763SW		Ceramic chip 0.047uF/50V	
C703L	963 9004 575		for E2,EK,EA	C764FL		Ceramic chip 33pF/50V	
C703E	963 9004 575		for E2,EK,EA	C764FR	963 9004 627	· · ·	
C703H	963 9004 575		for E2,EK,EA	C764SW	963 9004 643	'	
C704E	963 9004 575		for E2,EK,EA	C765FL	963 9005 765		
C705L	963 9004 575	' '	for E2,EK,EA	C765FR	963 9005 765	· ·	
C705E	963 9004 575	' '	for E2,EK,EA	C765SW	963 9005 765	·	
C705H C706L		Ceramic chip 100pF/50V	for E2,EK,EA	C771	963 9005 875	·	
C706R		Ceramic chip 100pF/50V	for E2,EK,EA	C772		Electrolytic 47uF/25V	
C700H C707L		Ceramic chip 100pF/50V		C773		Electrolytic 1uF/50V	
C707E C707R		Ceramic chip 100pF/50V	for E2,EK,EA	C781C		Ceramic chip 0.047uF/50V	
			for E2,EK,EA	C781FL		Ceramic chip 0.047uF/50V	
C708L	963 9004 575		for E2,EK,EA	C781FR		Ceramic chip 0.047uF/50V	
C708R	963 9004 575	' '	for E2,EK,EA	C781SL		Ceramic chip 0.047uF/50V	
C711L		Ceramic chip 0.01uF/50V		C781SR		Ceramic chip 0.047uF/50V	
C711R	963 9004 698	· ·		C781SW		Ceramic chip 0.047uF/50V	
C713L		Electrolytic 10uF/35V		C782C		Electrolytic 4.7uF/50V	
C713R		Electrolytic 10uF/35V		C782FL		Electrolytic 10uF/35V	
C714L		Mylar film 0.068uF/100V		C782FR		Electrolytic 10uF/35V	
C714R		Mylar film 0.068uF/100V		C782SL		Electrolytic 10uF/35V	
C715L		Mylar film 0.068uF/100V		C782SR		Electrolytic 10uF/35V	
C715R		Mylar film 0.068uF/100V		C782SW		Electrolytic 4.7uF/50V	
C716L		Electrolytic 10uF/35V		C783C	963 9003 914	·	
C716R		Electrolytic 10uF/35V		C783FL	963 9004 669	· · ·	
C721		Electrolytic 47uF/25V		C783FR	963 9004 669		
C722	960 9004 602			C783SL	963 9004 630	· ·	
C723		Electrolytic 47uF/25V		C783SR	963 9004 630	· · ·	
C724	960 9004 602			C783SW	963 9004 575	· · ·	
C725		Mylar film 0.0047uF/100V		C786SW	963 9005 914	' '	
C726		Mylar film 0.0047uF/100V		C7903VV		Electrolytic 47uF/25V	
C727		Mylar film 0.1uF/100V		C792		Electrolytic 47uF/25V	
C728		Mylar film 0.1uF/100V		0/92	300 3000 075	Liectrorytic 47 di 725 v	
C729		Mylar film 0.1uF/100V					<u> </u>
C730		Mylar film 0.1uF/100V		OTHER P	PARTS GROU	JP	Q'ty
C731		Electrolytic 10uF/35V		CN551	963 0096 809	12P shield wire	1
C732		Electrolytic 10uF/35V		CN701	963 0086 204	19P connector socket	1
C733		Electrolytic 10uF/35V		CN702	963 0085 302	17P connector socket	1
C734		Electrolytic 10uF/35V		CN703	963 0085 409	10P connector socket	1
C735		Electrolytic 10uF/35V					
C736		Electrolytic 10uF/35V			960 0188 200	4P pin jack	1
C741		Ceramic chip 100pF/50V			960 0188 307	6P pin jack	1
C742	963 9004 575	' '			963 0094 102		1
C743	963 9004 575	' '				Input cushion	1
C751		Electrolytic 1uF/50V					
C756		Electrolytic 1uF/50V					
C761FL	963 9004 753	'					
C761FR	963 9004 753	'					
C761SW	963 9004 753	'					
C762FL	963 9004 575	Ceramic chip 100pF/50V					
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## DSP P.W.B. ASS'Y

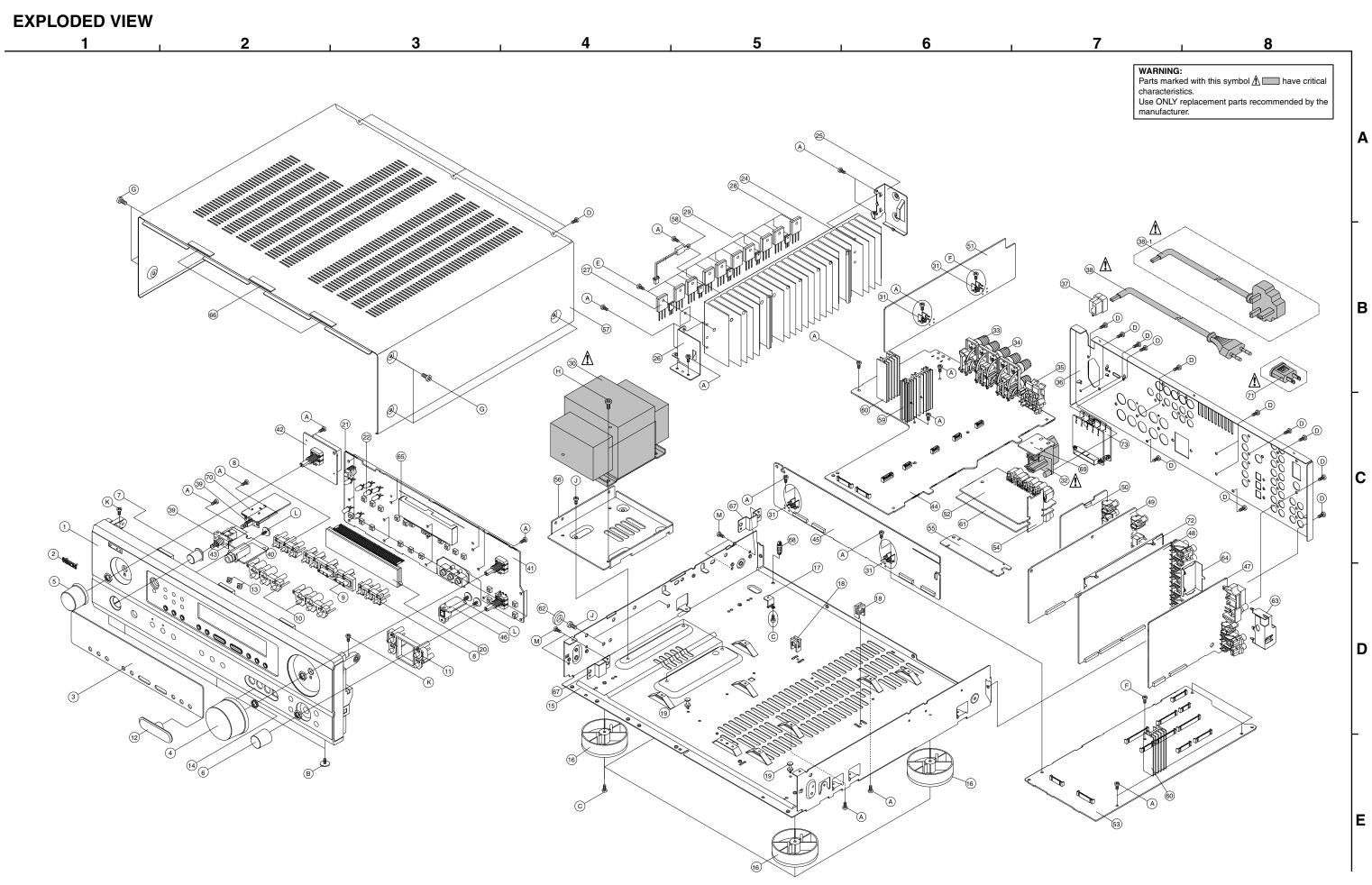
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS (	GROUP		R863L	963 9004 339	Carbon chip 470 ohm 1/16W	
IC802	963 0084 905	IC GP1FA502RZ		R863R	963 9004 339	Carbon chip 470 ohm 1/16W	
IC803	963 0084 905	IC GP1FA502RZ		R864C	963 9004 083	Carbon chip 100 kohm 1/16W	
IC804	963 0096 304	IC DSP MELODY 32 LQFP		R864FL	963 9004 083	Carbon chip 100 kohm 1/16W	
IC805	963 0095 703	IC M29W800AT		R864FR	963 9004 083	Carbon chip 100 kohm 1/16W	
IC806	963 0095 606	IC IS61LV6416-12T		R864L	963 9005 930	Carbon chip 750 kohm 1/10W	
IC807	963 0096 100	IC LC89057W		R864R	963 9005 930	Carbon chip 750 kohm 1/10W	
IC808	963 0096 207			R864SL	963 9004 083	Carbon chip 100 kohm 1/16W	
IC809	963 0074 203	IC MM74LCX244WMX		R864SR	963 9004 083	Carbon chip 100 kohm 1/16W	
IC810	963 0074 203	IC MM74LCX244WMX		R864SW	963 9004 083	Carbon chip 100 kohm 1/16W	
IC811		IC MM74LCX244WMX		R866C	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC812	963 0074 300	IC MM74HCT244WMX		R866FL	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC813		IC 74LCX02MTC		R866FR	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC814		IC SN74LV00APW		R866SL	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC815A		IC BA4510F-T1		R866SR	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC816A		IC BA4510F-T1		R866SW	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC817A		IC NJM2068M		R867C	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC818A		IC NJM2068M		R867FL	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC819A		IC NJM2068M		R867FR	963 9004 342	Carbon chip 4.7 kohm 1/16W	
IC817		IC GP1FA502TZ		R867SL		Carbon chip 4.7 kohm 1/16W	
IC821		IC 74LCX74MTC		R867SR	963 9004 342	·	
IC822		IC KIA7805API		R867SW		Carbon chip 4.7 kohm 1/16W	
IC823		IC RC1117S33ST		R868C		Carbon chip 4.7 kohm 1/16W	
IC824		IC RC1117S25T		R868FL		Carbon chip 4.7 kohm 1/16W	
10024	303 0074 700	10 NOTT173231		R868FR		Carbon chip 4.7 kohm 1/16W	
00040	000 0100 000	Transister KTC0074D		R868SL		Carbon chip 4.7 kohm 1/16W	
Q804C		Transistor KTC2874B		R868SR	963 9004 342	·	
Q804FL		Transistor KTC2874B		R868SW	963 9004 342	Carbon chip 4.7 kohm 1/16W	
Q804FR		Transistor KTC2874B		R869C	963 9004 342	Carbon chip 4.7 kohm 1/16W	
Q804SL	960 0196 603			R869FL	963 9004 342	·	
Q804SR	960 0196 603			R869FR	963 9004 342	'	
Q804SW	960 0196 603			R869SL		'	
Q805		Transistor DTA114EK			963 9004 342	'	
Q806	963 0058 203			R869SR	963 9004 342	'	
Q807	963 0058 203	Transistor DTA114EK		R869SW		Carbon chip 4.7 kohm 1/16W	
				R870C		Carbon chip 1 kohm 1/16W	
D801	963 0096 605	Diode 1N4148WS		R870FL		Carbon chip 1 kohm 1/16W	
D806		Diode 1N4148WS		R870FR	963 9003 398	· · · · · · · · · · · · · · · · · · ·	
D807	963 0096 605	Diode 1N4148WS		R870SL	963 9003 398	'	
				R870SR	963 9003 398	· · · · · · · · · · · · · · · · · · ·	
RESISTO	RS GROUP			R870SW	963 9003 398	'	
R803	963 9004 342	Carbon chip 4.7 kohm 1/16W		R871C	963 9004 083	'	
R841		·		R871FL	963 9004 083	Carbon chip 100 kohm 1/16W	
	963 9004 339	Carbon chip 470 ohm 1/16W		R871FR	963 9004 083	Carbon chip 100 kohm 1/16W	
R848		'		R871SL	963 9004 083	Carbon chip 100 kohm 1/16W	
R850		Carbon chip 75 ohm 1/16W		R871SR	963 9004 083	Carbon chip 100 kohm 1/16W	
R859L		Carbon chip 5.6 kohm 1/16W		R871SW	963 9004 083	Carbon chip 100 kohm 1/16W	
R859R		Carbon chip 5.6 kohm 1/16W		R872C	963 9004 216	Carbon chip 2.2 kohm 1/16W	
R860L		Carbon chip 5.6 kohm 1/16W		R872FL	963 9004 216	Carbon chip 2.2 kohm 1/16W	
R860R		Carbon chip 5.6 kohm 1/16W		R872FR	963 9004 216	Carbon chip 2.2 kohm 1/16W	
R861L		Carbon chip 470 ohm 1/16W		R872SL	963 9004 216	Carbon chip 2.2 kohm 1/16W	
R861R		Carbon chip 470 ohm 1/16W		R872SR	963 9004 216	Carbon chip 2.2 kohm 1/16W	
R862L		Carbon chip 5.6 kohm 1/16W		R872SW	963 9004 216	Carbon chip 2.2 kohm 1/16W	
R862R	963 9004 834	Carbon chip 5.6 kohm 1/16W					

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R922	963 9004 342	Carbon chip 4.7 kohm 1/16W		R996	963 9004 326	Carbon chip 47 ohm 1/16W	
R923	963 9004 410	Carbon chip 6.2 kohm 1/16W		R997	963 9004 326	Carbon chip 47 ohm 1/16W	
R931	963 9004 410	Carbon chip 6.2 kohm 1/16W		R998	963 9004 070	Carbon chip 10 kohm 1/16W	
R931L	963 9004 122	Carbon chip 12 kohm 1/16W		R999		Carbon chip 10 kohm 1/16W	
R931R	963 9004 122	Carbon chip 12 kohm 1/16W				·	
R932	963 9004 342	Carbon chip 4.7 kohm 1/16W		R1000	963 9004 326	Carbon chip 47 ohm 1/16W	
R932L	963 9004 164	Carbon chip 150 kohm 1/16W		R1001	963 9004 070	Carbon chip 10 kohm 1/16W	
R932R	963 9004 164	Carbon chip 150 kohm 1/16W		R1002	963 9004 326	Carbon chip 47 ohm 1/16W	
R938	963 9004 368	Carbon chip 470 kohm 1/16W		R1003	963 9004 326	Carbon chip 47 ohm 1/16W	
R952	963 9003 385	Carbon chip 100 ohm 1/16W		R1004	963 9004 326	Carbon chip 47 ohm 1/16W	
R953	963 9004 203	Carbon chip 220 ohm 1/16W		R1005	963 9003 372	Carbon chip 0 ohm 1/16W	
R954	963 9004 096	Carbon chip 1 Mohm 1/16W		R1006	963 9004 326	Carbon chip 47 ohm 1/16W	
R955	963 9004 070	Carbon chip 10 kohm 1/16W		R1007	963 9004 326	Carbon chip 47 ohm 1/16W	
R956	963 9004 070	Carbon chip 10 kohm 1/16W		R1012	963 9004 326	Carbon chip 47 ohm 1/16W	
R957	963 9004 070	Carbon chip 10 kohm 1/16W		R1021	963 9004 326	Carbon chip 47 ohm 1/16W	
R958	963 9004 070	·		R1022		Carbon chip 47 ohm 1/16W	
R959	963 9004 070	·		R1023		Carbon chip 47 ohm 1/16W	
R960	963 9004 070			R1024	963 9004 326	·	
R961	963 9004 070	·		R1025		Carbon chip 47 ohm 1/16W	
R962	963 9004 070	'		R1027		Carbon chip 47 ohm 1/16W	
R963	963 9004 070	·		R1029		Carbon chip 47 ohm 1/16W	
R964	963 9004 070			R1030		Carbon chip 47 ohm 1/16W	
R965	963 9004 070			R1031		Carbon chip 47 ohm 1/16W	
R966	963 9004 070			R1032		Carbon chip 47 ohm 1/16W	
R967	963 9004 070			R1033		Carbon chip 0 ohm 1/16W	
R968	963 9004 070	Carbon chip 10 kohm 1/16W		R1034		Carbon chip 0 ohm 1/16W	
R969	963 9004 070			R1035		Carbon chip 0 ohm 1/16W	
R970	963 9004 070	·		R1036	963 9003 372	,	
R971	963 9004 070	Carbon chip 10 kohm 1/16W		R1037	963 9004 070	,	
R972	963 9004 070	·		R1038	963 9004 070	l _	
R973	963 9004 070	Carbon chip 10 kohm 1/16W		R1039	963 9004 070	Carbon chip 10 kohm 1/16W	
R974	963 9004 070	Carbon chip 10 kohm 1/16W		R1040	963 9004 070	Carbon chip 10 kohm 1/16W	
R975	963 9004 070	Carbon chip 10 kohm 1/16W		R1041	963 9004 070	Carbon chip 10 kohm 1/16W	
R976	963 9004 070	Carbon chip 10 kohm 1/16W		R1043	963 9004 326	Carbon chip 47 ohm 1/16W	
R977	963 9004 070	Carbon chip 10 kohm 1/16W		R1044	963 9004 326	Carbon chip 47 ohm 1/16W	
R978	963 9005 697	Carbon chip 2 kohm 1/16W		R1045	963 9004 339	Carbon chip 470 ohm 1/16W	
R979	963 9003 385	Carbon chip 100 ohm 1/16W				·	
R981	963 9004 326			015:5	000 000		
R982	963 9004 326				ORS GROUI		
R983	963 9004 326	Carbon chip 47 ohm 1/16W		C801		Ceramic chip 0.1uF/50V	
R984	963 9004 326	Carbon chip 47 ohm 1/16W		C802		Ceramic chip 22pF/50V	
R985	963 9004 326	Carbon chip 47 ohm 1/16W		C803	963 9004 591	· · ·	
R986	963 9004 326	Carbon chip 47 ohm 1/16W		C805	963 9004 591	' '	
R987	963 9004 326	Carbon chip 47 ohm 1/16W		C810	963 9004 708	·	
R988	963 9004 326	Carbon chip 47 ohm 1/16W		C811	963 9005 309	1	
R989	963 9004 326	Carbon chip 47 ohm 1/16W		C812	963 9004 708	i i	
R990	963 9004 326	Carbon chip 47 ohm 1/16W		C813	963 9005 309	·	
R991	963 9004 326			C814	963 9004 591	· · ·	
R992	963 9004 326			C817	963 9005 927	·	
R993	963 9004 326	·		C818		Ceramic chip 0.01uF/50V	
R994	963 9004 326			C820		Electrolytic 47uF/10V	
R995	963 9004 326			C821		Electrolytic 100uF/10V	
				C822	963 9004 708	Ceramic chip 0.1uF/50V	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C823		Electrolytic 10uF/35V		C873SW	963 9004 672		
C825		Electrolytic 1uF/50V		C874		Ceramic chip 0.01uF/50V	
C826		Electrolytic 10uF/35V		C874C		Ceramic chip 680pF/50V	
C835	963 9005 901	,		C874FL		Ceramic chip 680pF/50V	
C838	963 9004 708	,		C874FR		Ceramic chip 680pF/50V	
C839	963 9004 708			C874SL		Ceramic chip 680pF/50V	
C840	963 9004 698			C874SR		Ceramic chip 680pF/50V	
C841		Electrolytic 2.2uF/50V		C874SW		Ceramic chip 680pF/50V	
C842		Ceramic chip 0.1uF/50V		C875		Ceramic chip 0.01uF/50V	
C843		Ceramic chip 0.1uF/50V		C875C		Electrolytic 10uF/35V	
C844		Ceramic chip 0.1uF/50V		C875FL		Electrolytic 10uF/35V	
C845		Ceramic chip 0.1uF/50V		C875FR		Electrolytic 10uF/35V	
C846		Ceramic chip 0.1uF/50V		C875SL		Electrolytic 10uF/35V	
C847		Ceramic chip 0.1uF/50V		C875SR		Electrolytic 10uF/35V	
C848		Ceramic chip 0.1uF/50V		C875SW		Electrolytic 10uF/35V	
C849	963 9004 708	•		C876C		Mylar film 0.0033uF/100V	
C850	963 9004 708	'		C876FL	963 9008 611	-	
C851	963 9004 708	'		C876FR	963 9008 611	'	
C852	963 9004 708	,		C876SL		Mylar film 0.0033uF/100V	
C853	963 9004 708			C876SR		Mylar film 0.0033uF/100V	
C854		Electrolytic 100uF/25V		C876SW		Mylar film 0.0033uF/100V	
C855	963 9005 804	-		C880C		Electrolytic 10uF/35V	
C856	963 9004 708	•		C880FL		Electrolytic 10uF/35V	
C857	963 9004 708	· ·		C880FR		Electrolytic 10uF/35V	
C858	963 9004 708			C880SL		Electrolytic 10uF/35V	
C859	963 9004 708			C880SR		Electrolytic 10uF/35V	
C860	963 9004 708	· ·		C880SW		Electrolytic 10uF/35V	
C861		Ceramic chip 0.1uF/50V		0000011	000 0000 702	Licotroly at Tour 700 v	
C862		Ceramic chip 0.1uF/50V		C916	963 9004 708	Ceramic chip 0.1uF/50V	
C863		Ceramic chip 0.1uF/50V		C917		Electrolytic 10uF/35V	
C864		Ceramic chip 0.1uF/50V		C925		Ceramic chip 0.1uF/50V	
C864L		Electrolytic 47uF/16V		C926		Electrolytic 10uF/35V	
C864R		Electrolytic 47uF/16V		C931		Ceramic chip 0.01uF/50V	
C865		Ceramic chip 0.022uF/25V		C937		Electrolytic 10uF/35V	
C865L		Ceramic chip 120pF/50V		C938		Electrolytic 1uF/50V	
C865R		Ceramic chip 120pF/50V		C939		Ceramic chip 0.01uF/50V	
C866		Ceramic chip 0.1uF/50V		C943	963 9005 927		
C868	963 9005 998	,		C944	963 9004 698	,	
C869	963 9005 998	, ,		C946	963 9004 708	· ·	
C869L	963 9004 575	' '		C947	963 9004 708	· ·	
C869R	963 9004 575	' '		C948		Electrolytic 10uF/35V	
C870	963 9004 698	' '		C949		Electrolytic 10uF/35V	
C871	963 9004 708	· ·		C950		Ceramic chip 0.1uF/50V	
C871L	963 9009 500	'		C951	963 9005 901	· ·	
C871R	963 9009 500	,		C952		Ceramic chip 0.1uF/50V	
C872	963 9004 708			C953		Electrolytic 10uF/35V	
C873	963 9004 698	· ·		C955		Ceramic chip 0.1uF/50V	
C873C		Ceramic chip 680pF/50V		C957		Ceramic chip 0.1uF/50V	
C873FL		Ceramic chip 680pF/50V		C958		Electrolytic 100uF/10V	
C873FR		Ceramic chip 680pF/50V		C959		Electrolytic 10uF/35V	
C873SL	963 9004 672	, ,		C960		Ceramic chip 0.1uF/50V	
C873SR	963 9004 672	, ,		C961		Electrolytic 10uF/35V	
00.0011		2 2.3 3p 300pi /001					

# VOLTAGE SEL. P.W.B. ASS'Y (for Asia, Hong Kong & Taiwan R.O.C. model only)

Dof No	Part No.	Dart Nama	Domorko	7 F		Part Name		Q'ty
Ref. No.		Part Name Ceramic chip 0.1uF/50V	Remarks	Ref. No.	Part No.	Part Name JP (E1,G1H,G1T model	Remarks	∣ <b>u</b> ty
C962 C965		Ceramic chip 0.1uF/50V				I	T	
C966	963 9004 708	Electrolytic 470uF/10V		CP901		5P connector base	for E1,E1H,E1T	1
C967		Ceramic chip 0.1uF/50V		CP902	963 0059 309	3P wire	for E1,E1H,E1T	1
C907	903 9004 706	Ceramic chip o. rur/50V		0.1405	000 0050 405	OD with	6 E4 E4U E4E	
				CN105	963 0059 105		for E1,E1H,E1T	1
OTHER P	ARTS GROU	JP	Q't	CN903	963 0058 805	2P wire	for E1,E1H,E1T	1
CB803	963 0050 502	Chip emifil	1	<u></u> 1 F101	060 0140 600	Fuse 250V-T2.5A	for E1,E1H,E1T	1
CB805-810	963 0050 502	Chip emifil	6	F101A	960 0142 802		for E1,E1H,E1T	1
				F101A	960 0005 804	· ·	for E1,E1H,E1T	1
CN801	963 0086 107	16P connector socket	1	101B 1101B	963 0057 107	Fuse 250V-T6.3A	for E1,E1H,E1T	1
CN802	963 0086 204	19P connector socket	1	F102A	960 0005 804	Fuse clip	for E1,E1H,E1T	1
CN803	963 0097 206	8P connector socket	1	F102A	960 0005 804	Fuse clip	for E1,E1H,E1T	1
				1 102B		Fuse 250V-T3.15A	for E1,E1H,E1T	1
JACK801	963 0052 500	Coaxial	1	F901A			for E1,E1H,E1T	1
				F901B	960 0005 804	1	for E1,E1H,E1T	1
L802	963 0050 803	Inductor 4.7uh	1	II F901B	900 0003 604	ruse clip	101 E1,E111,E11	'
L805,806	963 0050 803	Inductor 4.7uh	2	<b>1 1 1 1 1 1 1 1 1 1</b>	960 0143 203	AC outlet	for E1,E1H,E1T	1
L807	963 0050 900	Inductor 2.2uh	1	JK912			for E1,E1H,E1T	1
				01012	300 0030 304	Olide OVV	101 21,2111,211	'
XTAL1	963 0095 101	Crystal 12.288MHz	1		963 0051 103	Card spacer	for E1,E1H,E1T	1
					963 0044 602	P.C. supporter	for E1,E1H,E1T	2
				П				
				П				
				П				
				П				
				П				
				П				
	!	t			-	•	<del>-</del>	



Note: The symbols in the column "Remarks" indicate the following destinations.

E3: U.S.A. & Canada model
EU: U.S.A. model (AVR-683)
E2: Europe model
EK: U.K. model
EA: Australia model
EA: Australia model
E1T: Taiwan R.O.C. model
E1K: Korea model

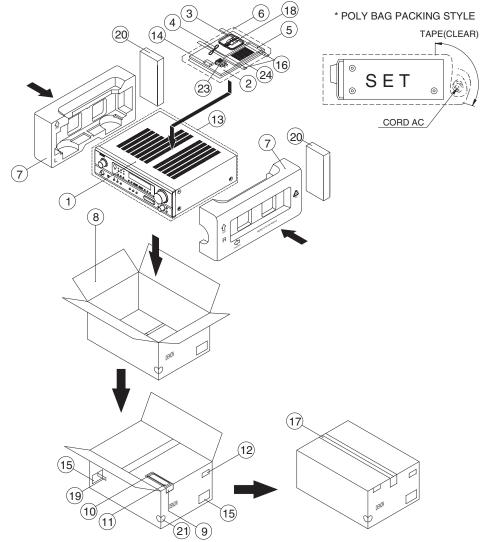
## PARTS LIST OF EXPLODED VIEW

PARIS	LIST U	F EXPLODE	D VIEW		EK: U EA: A
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No
	963 0092 010	Main P.W.B. Total Ass'y	for E3,EU	1	
	963 0092 023		for E2,EK,EA		
	963 0092 036		for E1,E1T,E1H		
	963 0092 049		for E1C		
	963 0092 052		for E1K		
44		Main P.W.B. Sub Ass'y			
<b> </b> 50		Video P.W.B. Sub Ass'y			
55		Video CNT P.W.B. Sub Ass'y			
└ 69		Outlet P.W.B. Sub Ass'y	for E2,E1,E1T,E1H,E1K		
	060 0000 117	CDLLD W.D. Total Apply	for EQ ELL		
	963 0092 117 963 0092 120	CPU P.W.B. Total Ass'y	for E3,EU for E2,EK,EA	1	
	963 0092 120		for E1,E1T,E1H		
	963 0092 133		for E1C		
	963 0092 140		for E1K		
<b> </b>	300 0002 100	Front P.W.B. Sub Ass'y			
		Optical-In P.W.B. Sub Ass'y			
- 53		CPU P.W.B. Sub Ass'y			
_ 70		Power-Sw P.W.B. Sub Ass'y	for E2,EK,EA,E1		
			E1C,E1T,E1H,E1K		
			, ,		
	963 0094 403	Voltage Sel P.W.B. Total Ass'y	for E1,E1T,E1H	1	
<u></u> 73		Voltage Sel P.W.B. Sub Ass'y			
	963 0092 214	CNT P.W.B. Total Ass'y	for E3,EU	1	
	963 0092 227		for E2,EK,EA		
	963 0092 230		for E1,E1T,E1H		
	963 0092 243		for E1C		
	963 0092 256		for E1K		
42		Encoder P.W.B. Sub Ass'y			
<del> </del> 43		Head Phone P.W.B. Sub Ass'y			
<del> </del> 45		CNT P.W.B. Sub Ass'y			
<u> </u>		Tuner P.W.B. Sub Ass'y			
<u></u> 51		Pre-Amp P.W.B. Sub Ass'y			
─ 52		S-Video P.W.B. Sub Ass'y			
<b>⊢</b> 54		S-Video CNT P.W.B. Sub Ass'y			
└ 61		C-Video P.W.B. Sub Ass'y	for E3,EU		
	963 0092 311	Input-Vol P.W.B. Total Ass'y	for E3,EU	1	
	963 0092 324		for E2,EK,EA		
	963 0092 337		for E1,E1T,E1H		
	963 0092 340		for E1C		
	963 0092 353		for E1K		
<u></u> 48		Input-Vol P.W.B. Sub Ass'y			<b>1</b>
	963 0092 418	DSP P.W.B. Total Ass'y	for E3,EU	1	
	963 0092 421		for E2,EK,EA		
	963 0092 434		for E1,E1T,E1H		
	963 0092 447		for E1C		<b>⚠</b>
	963 0092 450		for E1K		417
L— 49		DSP P.W.B. Sub Ass'y			
1	963 0093 019	Front Panel	for E3	1	
		<del></del> -			

EA : Aust	EA : Australia model E1K : Korea model			
Ref. No.	Part No.	Part Name	Remarks	Q'ty
	963 0093 022	Front Panel	for EU	1
	963 0093 035	Front Panel	for E2,EK,EA	1
	963 0093 048	Front Panel	for E1,E1C,E1T,	
			E1H,E1K	1
2	963 0051 501	DENON Badge	for black model	1
	963 0051 514	DENON Badge	for gold model	1
3	963 0093 116	Window	for E3,EU,E1,E1C,E1T,E1H,E1K	1
	963 0093 129	Window	for E2,EK,EA	1
4	963 0093 213	Volume Knob	for black model	1
	963 0093 200	Volume Knob	for gold model	1
5	963 0093 310	Function Knob	for black model	1
	963 0093 307	Function Knob	for gold model	1
6	963 0093 417	Select Knob	for black model	1
	963 0093 420	Select Knob	for gold model	1
7	963 0093 514	Power Push Button	for black model	1
	963 0093 501	Power Push Button	for gold model	1
8	963 0094 801	3key(A) Button		2
9	963 0098 205	6key Button		1
10	963 0094 610	3key(B) Button	for black model	2
	963 0094 607	3key(B) Button	for gold model	2
11	963 0094 717	4key Button	for black model	1
	963 0094 704	4key Button	for gold model	1
12	963 0098 302	RCA Cover	for E2,EK,EA,E3,EU	1
13	960 0191 417	Lens LED		2
14	963 0092 900	Knob Spring		1
15	963 0098 108	Main Chassis		1
16	960 0183 904	Foot Ass'y		4
17	960 0184 107	Bracket Supporter		1
18	960 0003 301	Supporter P.W.B.		2
19	963 0051 103	Card Spacer		2
20	960 0180 509	Display FLT 16-ST-42GNK		1
21	960 0181 100	Remocon Module		1
22	960 0197 204	LED HL50RDRF4T		8
24	_	Main Heat Sink	for E3,EU	1
		Main Heat Sink	for E2,EK,EA,E1,	
			E1C,E1T,E1H,E1K	1
25	960 0184 204	Heat Sink-B Bracket		1
26	960 0184 301	Heat Sink-F Bracket		1
27	963 0044 107	Transistor 2SB1560-Y	for E3,EU	5
	960 0090 107	Transistor 2SB1559Y	for E2,EK,EA,E1,	
			E1C,E1T,E1H,E1K	5
28	963 0044 204	Transistor 2SD2390-Y	for E3,EU	5
	960 0090 000	Transistor 2SD2389Y	for E2,EK,EA,E1,	
			E1C,E1T,E1H,E1K	5
29	963 0058 106	Transistor 2SD947F		5
<u>1</u> 1 30	963 0098 506	Power Trans	for E3,EU	1
	963 0098 409	Power Trans	for E2,EK,EA	1
	963 0098 412	Power Trans	for E1,E1T,E1H	1
	963 0098 425	Power Trans	for E1K,E1C	1
31	960 0184 000	Bracket Screw		2
<b>∆</b> \. 32	960 0181 508	AC Outlet(2P)	for E3,EU	1
	960 0143 203	AC Outlet	for E2,EK,EA,E1,E1T,E1H	1
	960 0144 202	AC Outlet	for E1K	1
33	960 0194 809	2P Pin Jack		1

Ref. N	lo.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
nei. iv	34	963 0074 009		Hemarks	1	SCREWS		T dit i vallic	Hemarks	Q ty
	35	960 0158 308			1	1		0 7 71 0007 7 /01	( F0 F11 F0 F1/ FA	T
	36	963 0092 719		for E3	1	A	963 0018 007	" " " " " " " " " " " " " " " " " " "		1
	30	963 0092 719		for EU	1		963 0018 007	Screw, Tap Tite 3x8 B-Type Zny/Bh	' ' ' '	
				for E2,EK,EA	1	В	960 9008 527		for E3,EU,E2,EK,EA	4
		963 0092 735					960 9008 420	,	for E1,E1C,E11,E1H,E1K	1
			Back Chassis	for E1,E1T,E1H	1	C	963 0048 200	''' '		5
		963 0092 751		for E1K	1	D	960 0108 714		' ' ' '	40
	07	963 0092 764		for E1C	1		960 0108 714	'' '' ''	for E1,E1C,E1T,E1H,E1K	
	37		AC Cord Stopper	( 50 511	1	E	963 9004 009	, ,, ,		15
ΔĹ	38	963 0098 603	•	for E3,EU	1	F	963 0018 104	" "		4
		960 0202 500	•	for E2	1	G	963 0048 307	· · · /		6
		963 0099 602	•	for EA			963 9004 012	Screw 4x8 B-Type(Dot) Ni/Bh	I -	6
		963 0060 408	•	for E1,E1T	1	Н	960 9008 417	l ''		4
		960 0143 009	•	for EK,E1H	1	J	963 9004 025	'' " '		6
		963 0098 700	•	for E1K	1	K	963 9004 038	Screw 3x8 B-Type Zny		2
		963 0060 301	•	for E1C	1	L	960 9008 420		' ' ' '	3
	39	960 0176 209		for E3,EU	1		960 9008 420	Screw 3x8 Zny Washer Pi12	' ' ' ' '	7
		963 0098 807	Push SW	for E2,EK,EA,E1,		М	963 9004 041	Screw 3x5 Zny/Bh	for E2,EK,EA,E1,	
	40	000 0005 400	Lland Dhana Ingl	E1C,E1T,E1H,E1K	1				E1T,E1K,E1H,E1C	4
	40		Head Phone Jack		1					
	56	963 0098 904		for his along alai	1					
	57	963 0053 017	' '	for black model	1					
		963 0092 502	' ·	for gold model	1					
	58	960 0187 900			1					
	59	_	Heat Sink Reg TR		1					
	60		Heat Sink Reg TR		1					
	62		Rubber Cushion		2					
	63	963 0054 003			1					
	64	963 0099 000			1					
	65	960 0184 408			1					
	66	963 0089 104	, ,	( 50 51/ 54 54	3					
	67	963 0081 607	Side Bracket	for E2,EK,EA,E1, E1C,E1T,E1H,E1K	2					
	60	063 0044 603	Supportor B.C	EIG,EII,EIH,EIK	2					
	68 71	963 0044 602	Supporter P.C.	for E1T	1					
	72		· ·	IOI ETT	1					
	12	963 0094 102 960 0155 301	· ·		1					
*			'		4					
*			Bushing Terminal Cable Flat Card	for E3 E11 E3 EV E1 E10 E1V	10					
*			Fuse Caution Label	for E3,EU,E2,EK,E1,E1C,E1K for E3,EU	1					
*			Fuse Caution Label	for E2,EK,EA,E1K	1					
*				for E1C						
*		963 0090 504	Fuse Caution Label	IOI E IC	1					

## **PACKING VIEW**



Note: The symbols in the column "Remarks" indicate the following destinations.

E3: U.S.A. & Canada model

EU: U.S.A. model (AVR-683)

E2: Europe model

EK: U.K. model

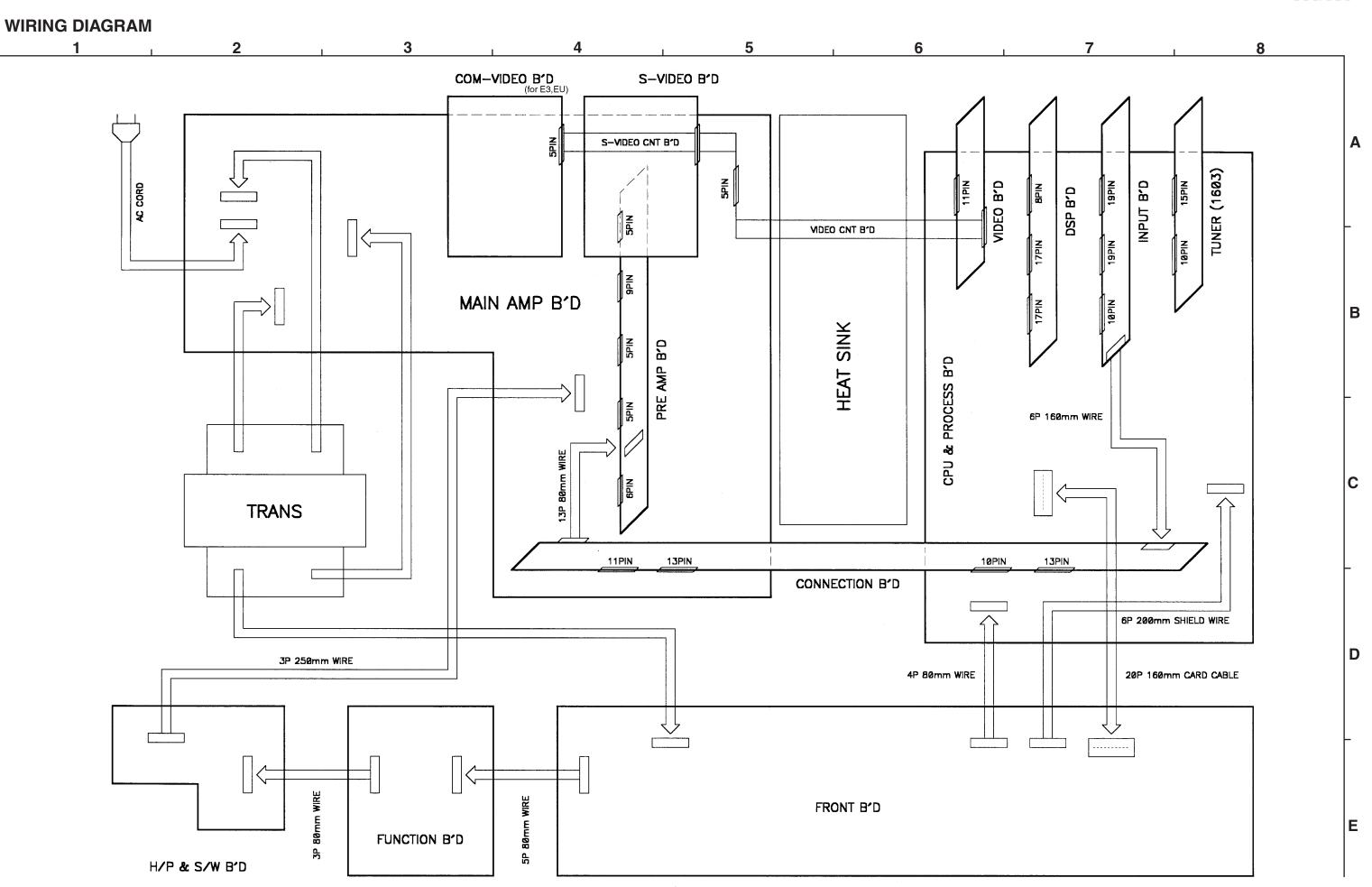
EA: Australia model

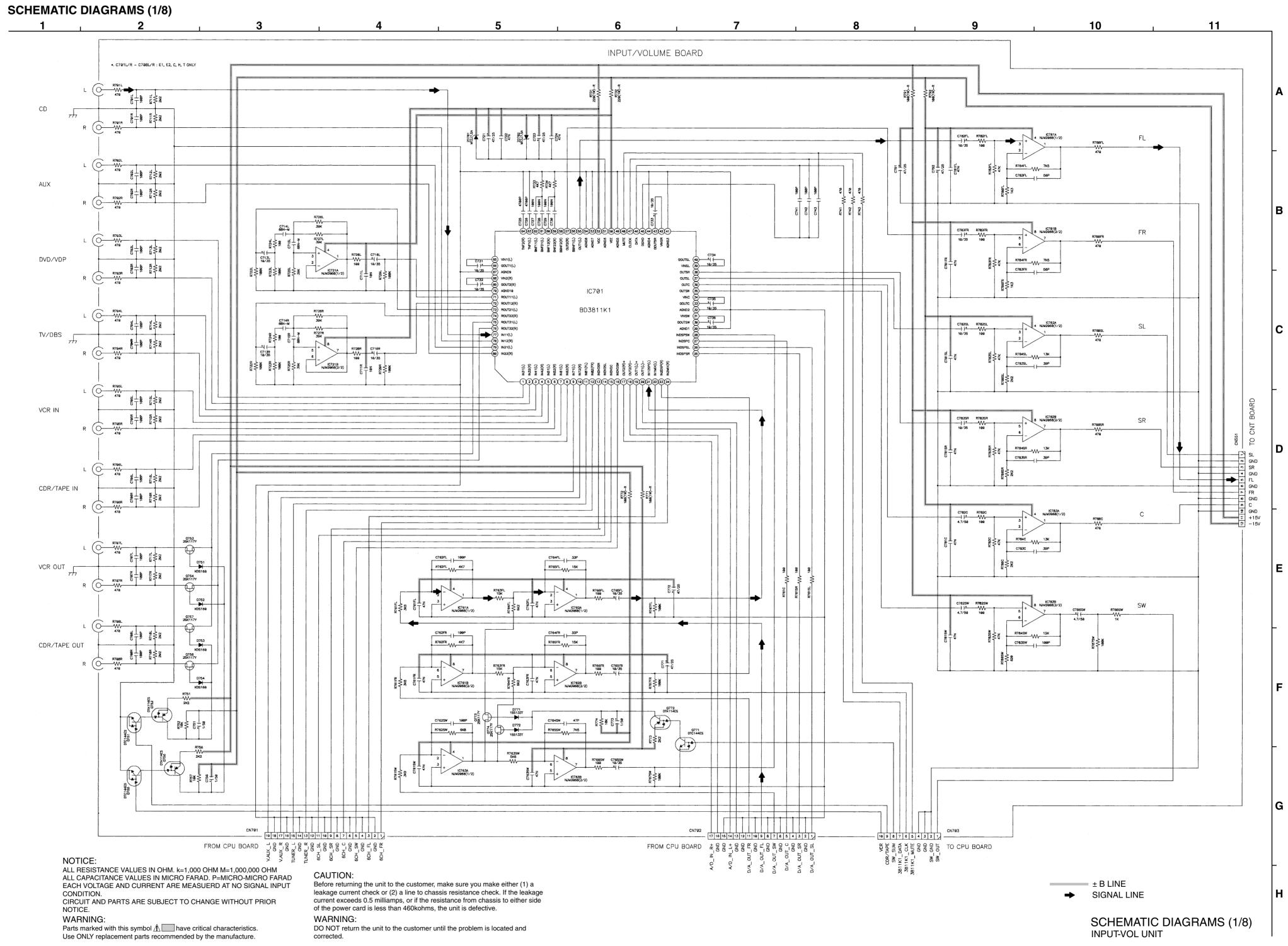
E1T: Taiwan R.O.C. model

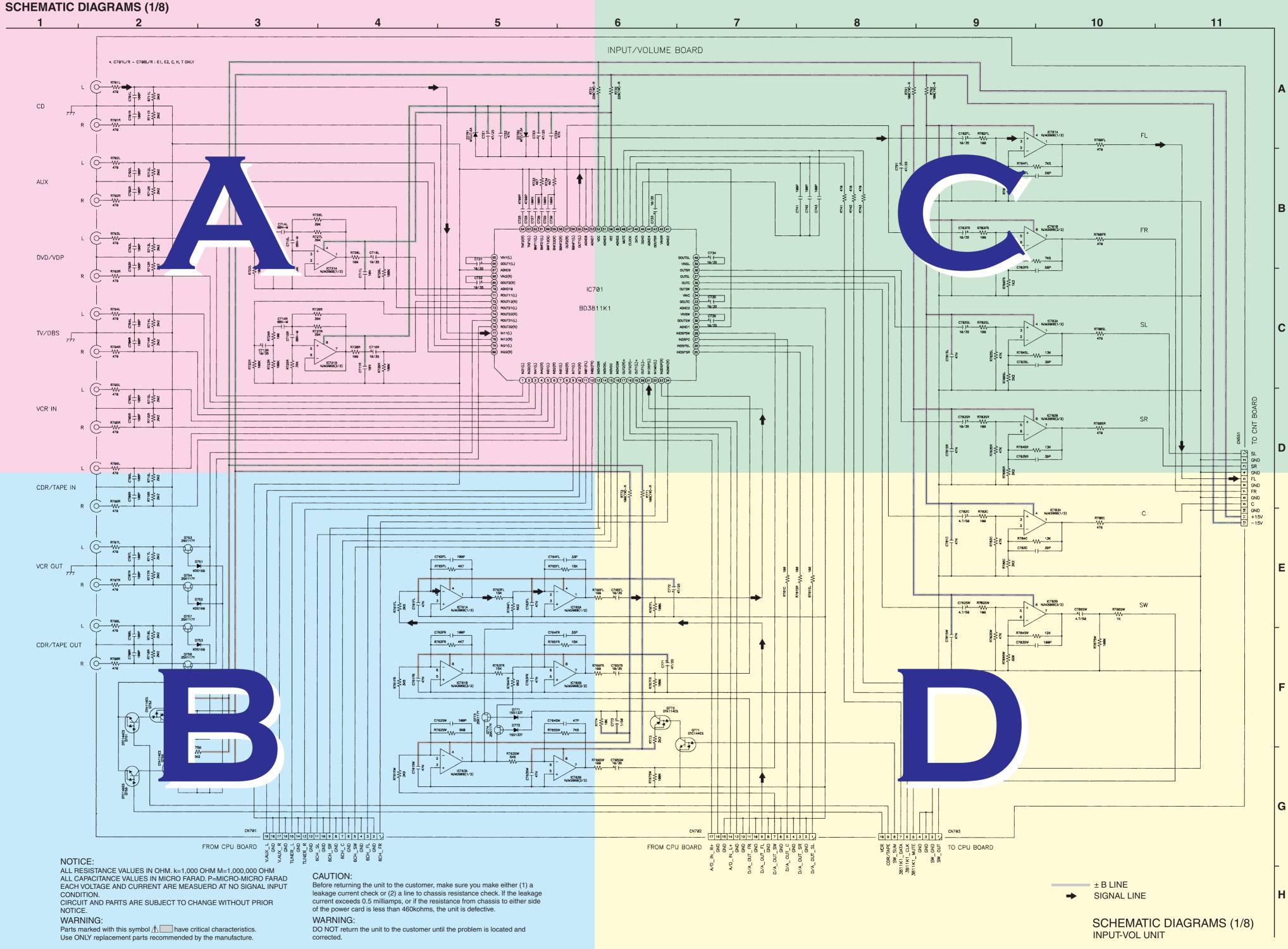
E1K: Korea model

## **PARTS LIST OF PACKING & ACCESSORIES**

						EA : Australia	i model ETK: KC	1K : Korea model	
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
2	963 0091 011	Instruction manual	for E3,EU	1		_	UPC label	for EU	1
	963 0091 024	Instruction manual	for E2,EK,EA	1		_	Label E2 pos	for E2	1
	963 0091 037	Instruction manual	for E1,E1H,E1T	1		_	Label Ek pos	for EK	2
	963 0091 040	Instruction manual	for E1C	1	13	960 0185 601	Set poly bag		1
	963 0091 053	Instruction manual	for E1K		14	_	Battery		2
3	963 0052 306	AM antenna wire		1	15	930 0092 901	Control label		2
4	963 0052 209	FM antenna wire		1	16	_	Tape		1
5	963 0091 105	Remocon RC920		1	17	_	Tape packing		1
6	963 0045 106	Poly bag		1	18	_	Card S. S. List		1
7	960 0193 101	Cushion snow L/R		1	19	_	Label (RDS/Radio text)	for E2,EK,EA	1
8	963 0091 215	Carton case	for E3,E2	1	20	963 0055 918	Pad snow	for EK,EA,E1H	2
	963 0091 228	Carton case	for EU	1	21	_	Label color	for gold model	2
	963 0091 231	Carton case	for EK,EA	1	<u>1</u> 1 23	963 0061 300	AC adapter	for E1T	1
	963 0091 244	Carton case	for E1,E1C,E1T,E1K	1	*	_	Label kolin (rating)	for E1T	1
	963 0091 257	Carton case	for E1H	1	*	_	Label kolin (box)	for E1T	1
9	_	Card envelope(warranty)	for E3,EU	1	*	_	Box label	for E1C	1
10	_	Warranty card	for E3,EU	1	*	_	Card warranty	for E1K	1
11	960 0185 300	Registration card	for E3,EU	1	*	963 0025 809	Preset label	for E1,E1T,E1H	1
12	_	UPC label	for E3	1	★	_	Serial No. Label		1

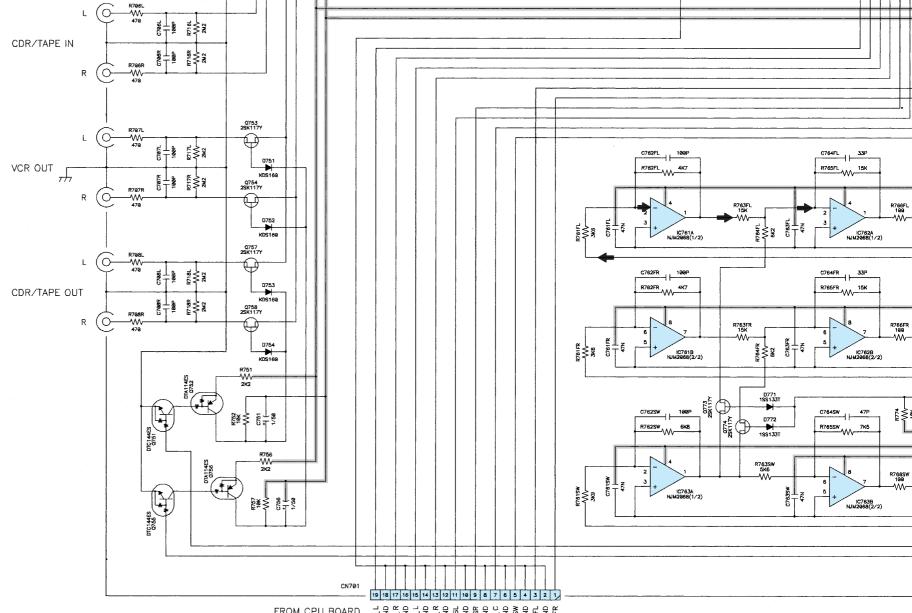






## **SCHEMATIC DIAGRAMS (1/8)** 3 5 *. C701L/R - C708L/R : E1, E2, C, H, T ONLY CD 7 C721 47/25 47/25 C722 C722 C722 C722 C782L 188P 188P 2M2 £\$\$\$\$\$ AUX 242 242 242 C716L +| (-19/35 65 VIN1(L) 66 GOUT1(L) 67 AGND9 68 VIN2(R) 69 GOUT2(R) 70 AGND18 DVD/VDP ) |+ 19/35 188K 188K 188K 188K 188K 39K IC701 ROUT11(L) 72) ROUT12(R) BD3811k ROUT21(L) --\/\/ R727R 39K TV/DBS 77 IN11(L) 78 IN12(R) 79 IN21(L) 80 IN22(R) 777 $(\circ)$ 10/35 100K 100K 100K 100K 100K 100K 100K IC721B NJM2968(2/2) 188X 1887 1887 2M2 VCR IN

C786L 168P 17716L 2M2



FROM CPU BOARD

## VAUX_R GND CND TUNER_L GND TUNER_R GND

### NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

#### WARNING:

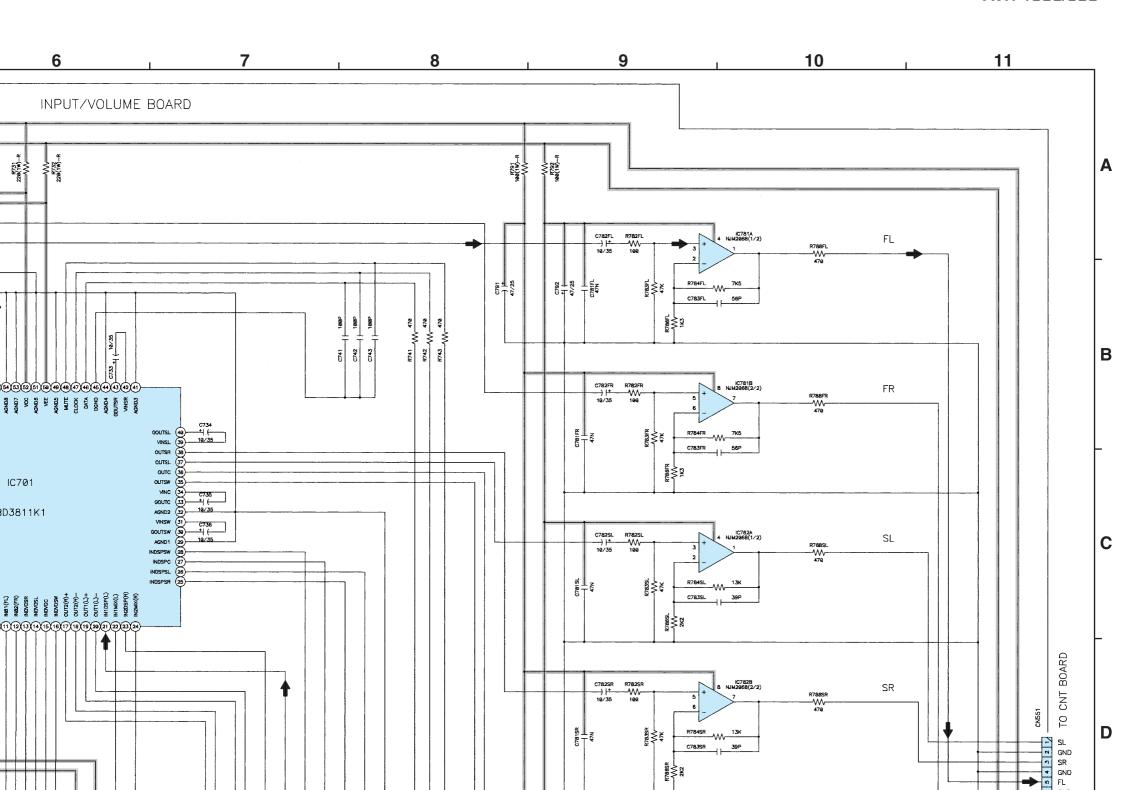
Parts marked with this symbol  $\Lambda$  have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

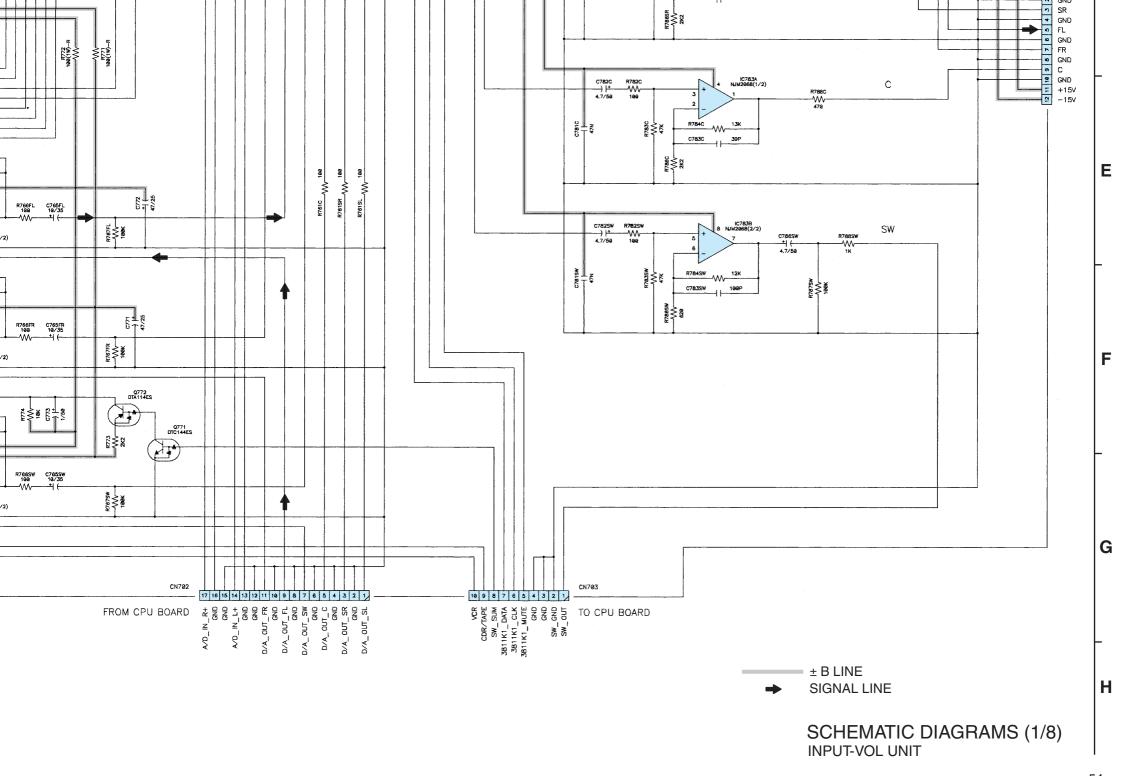
#### CAUTION:

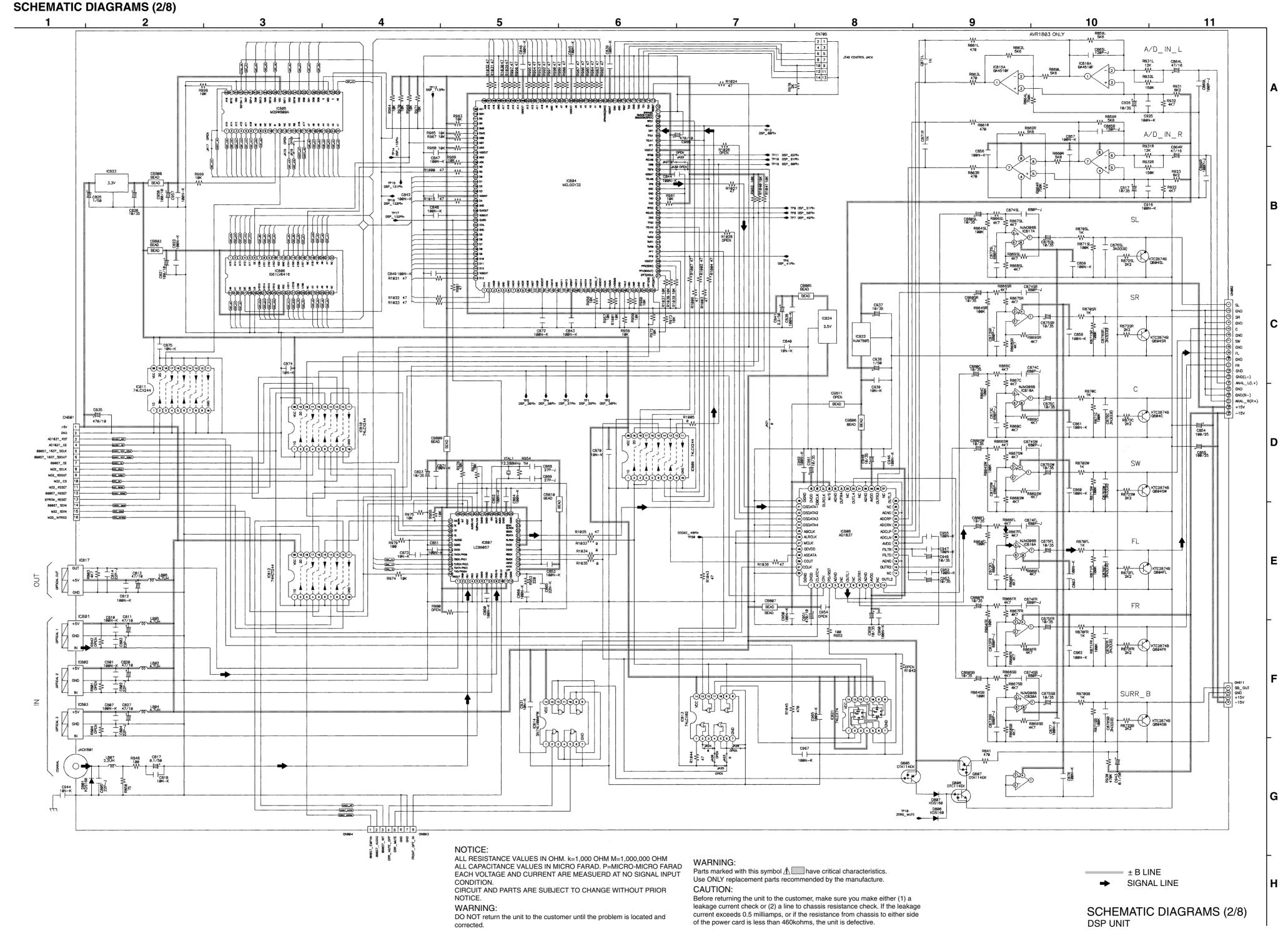
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

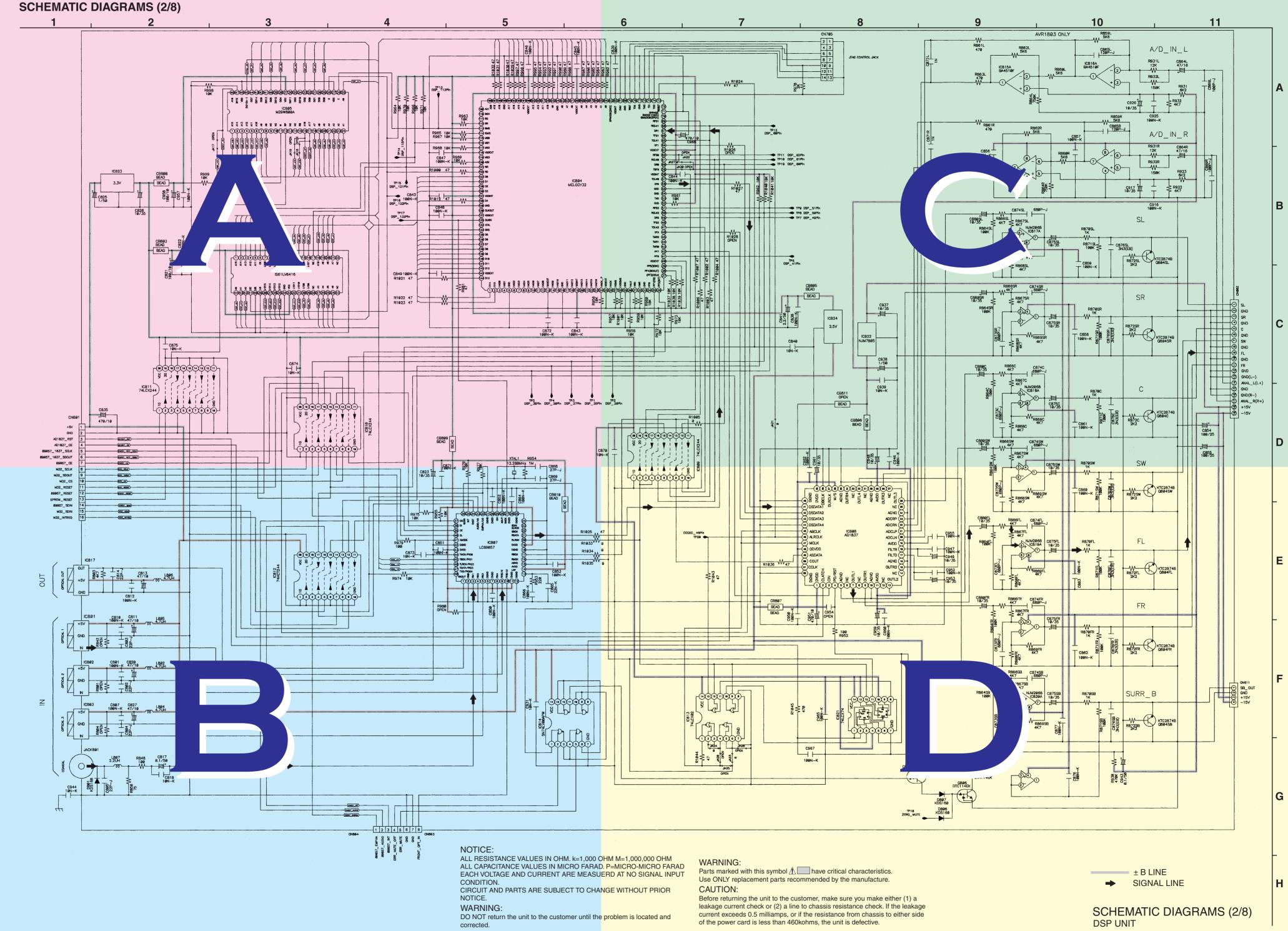
#### WARNING:

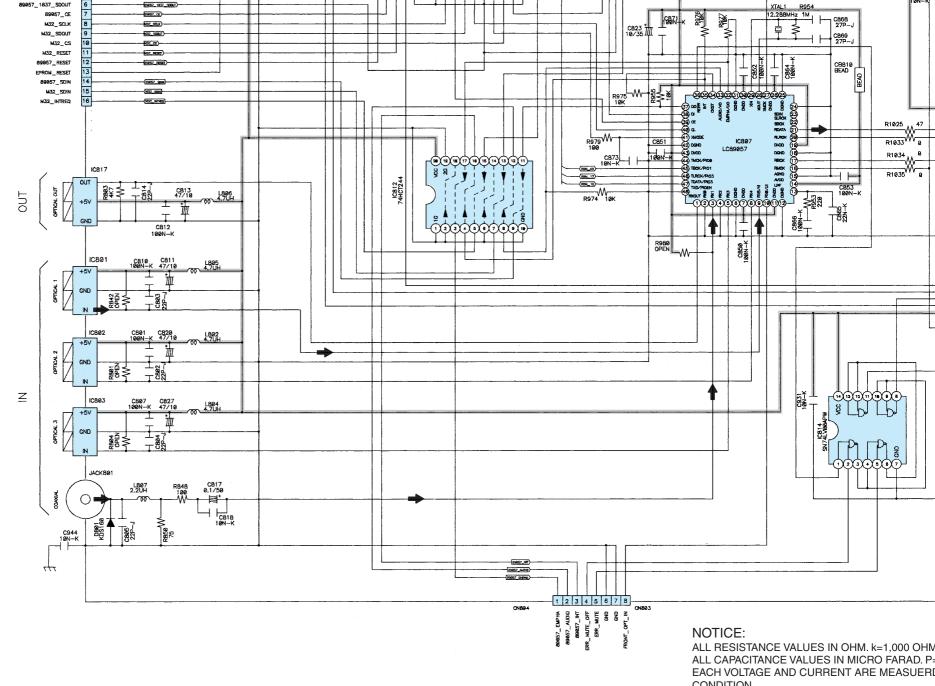
DO NOT return the unit to the customer until the problem is located and corrected.









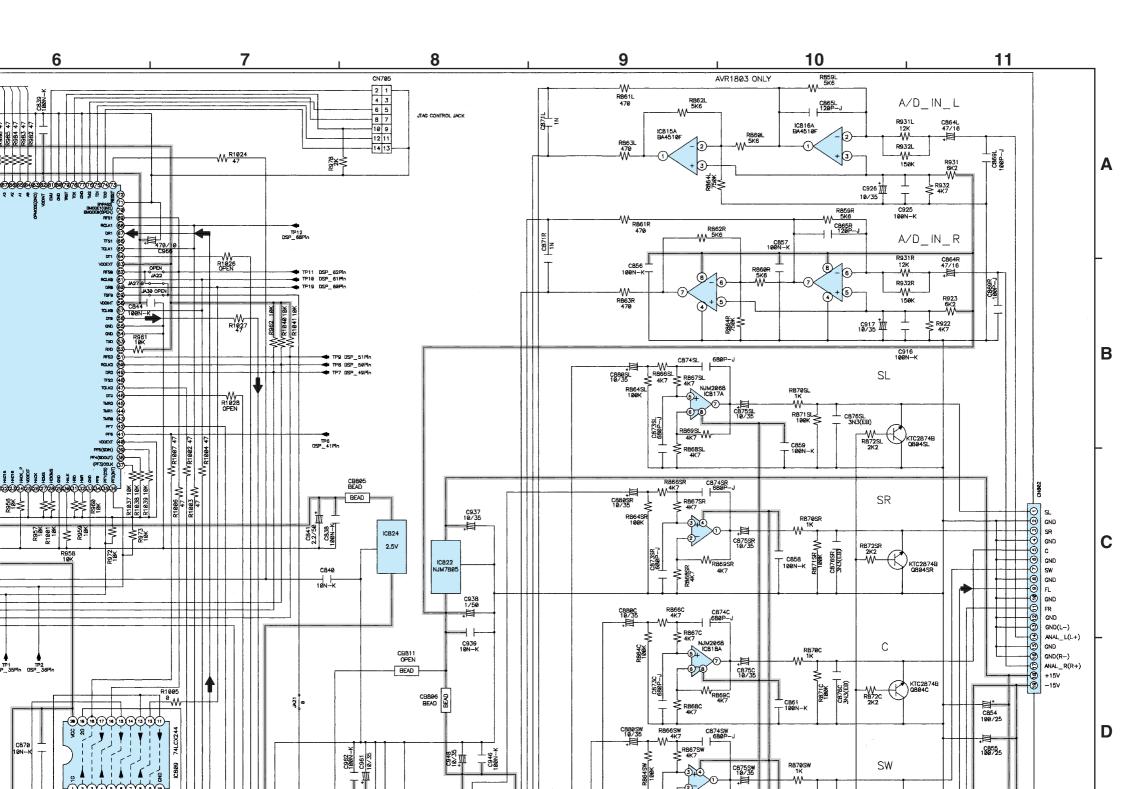


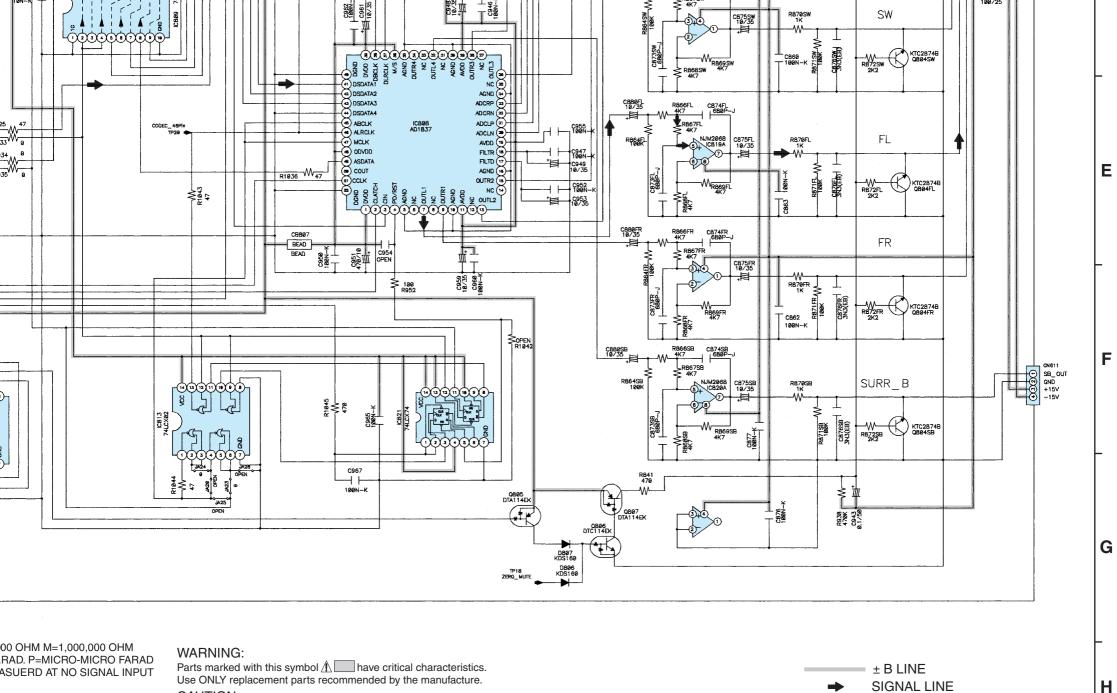
CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGI NOTICE.

### WARNING:

DO NOT return the unit to the customer until the pro corrected.





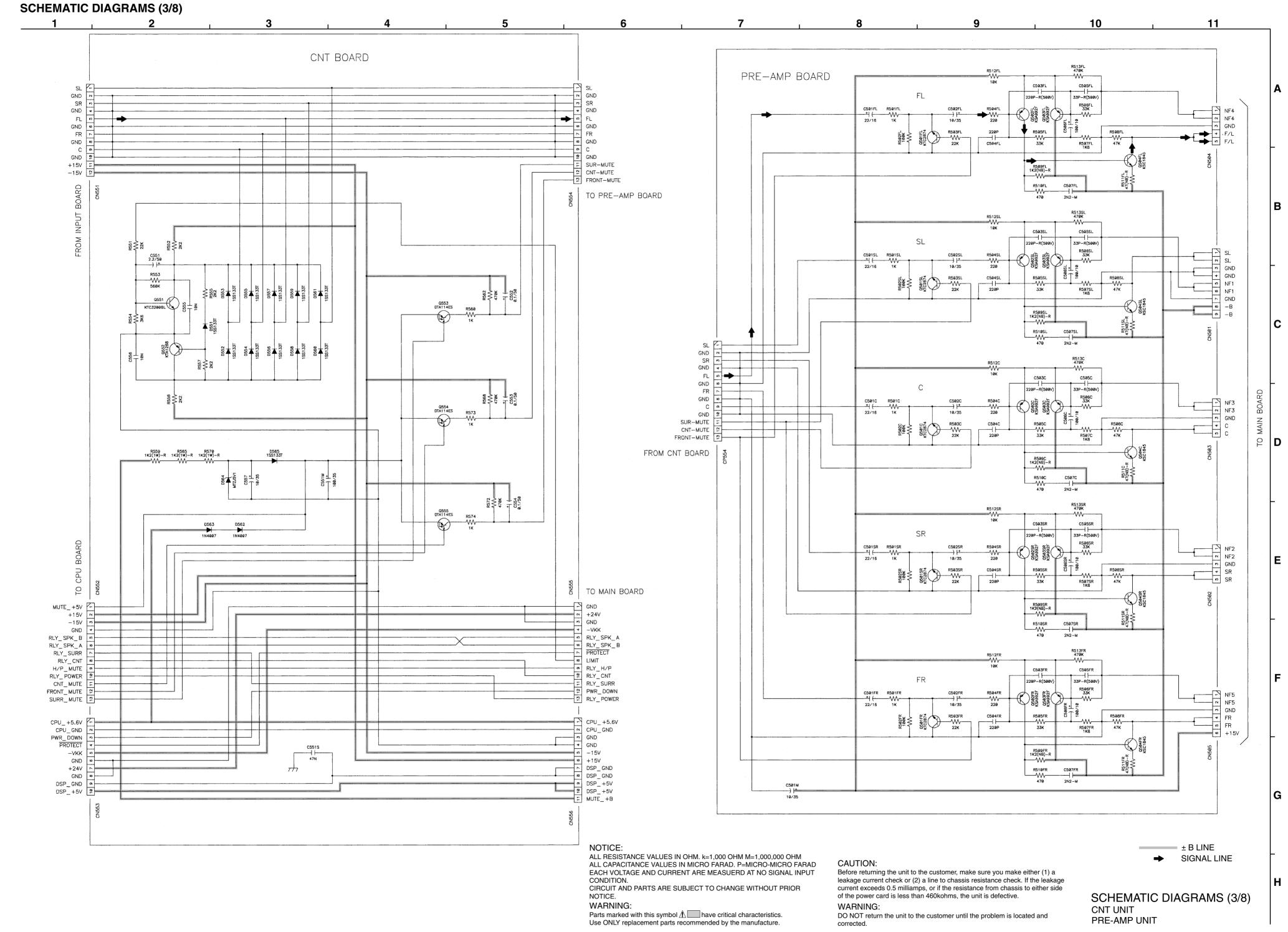
CHANGE WITHOUT PRIOR

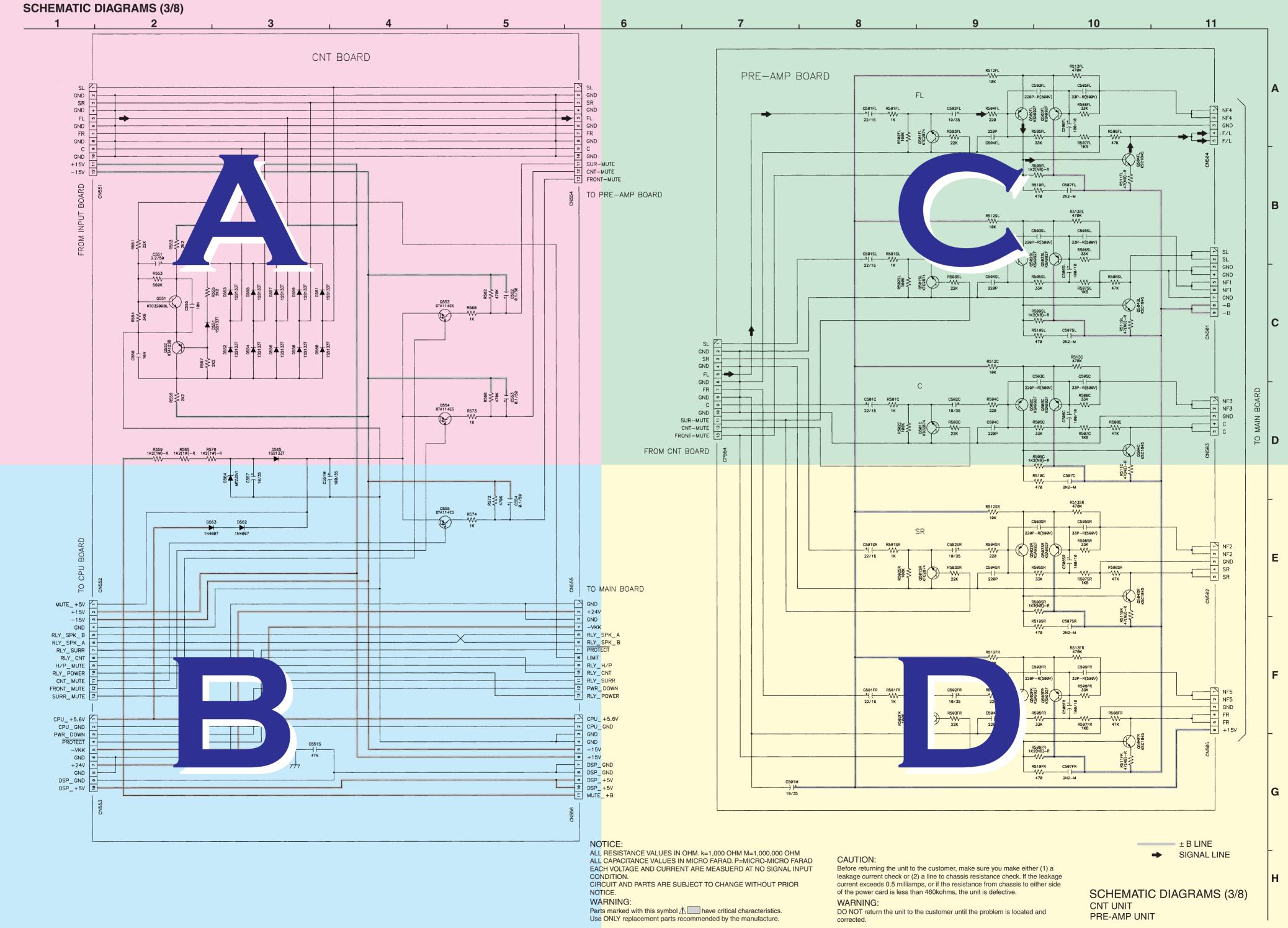
il the problem is located and

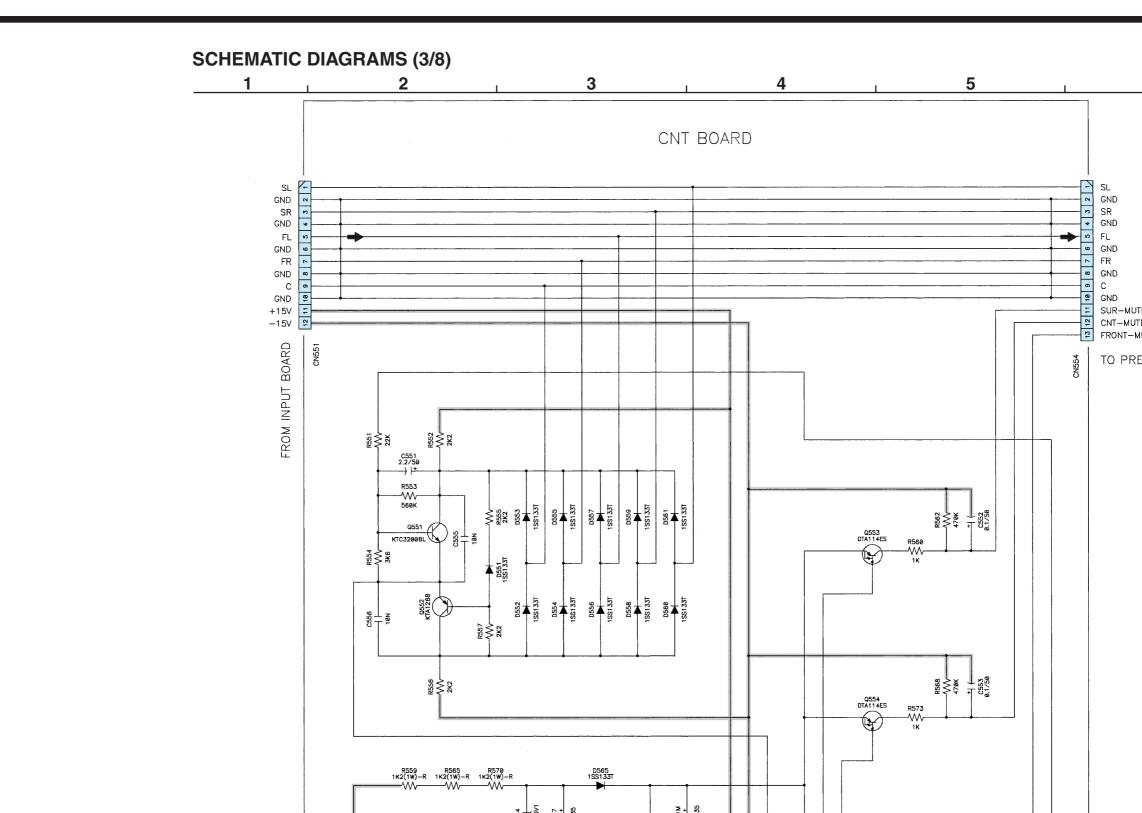
#### CAUTION:

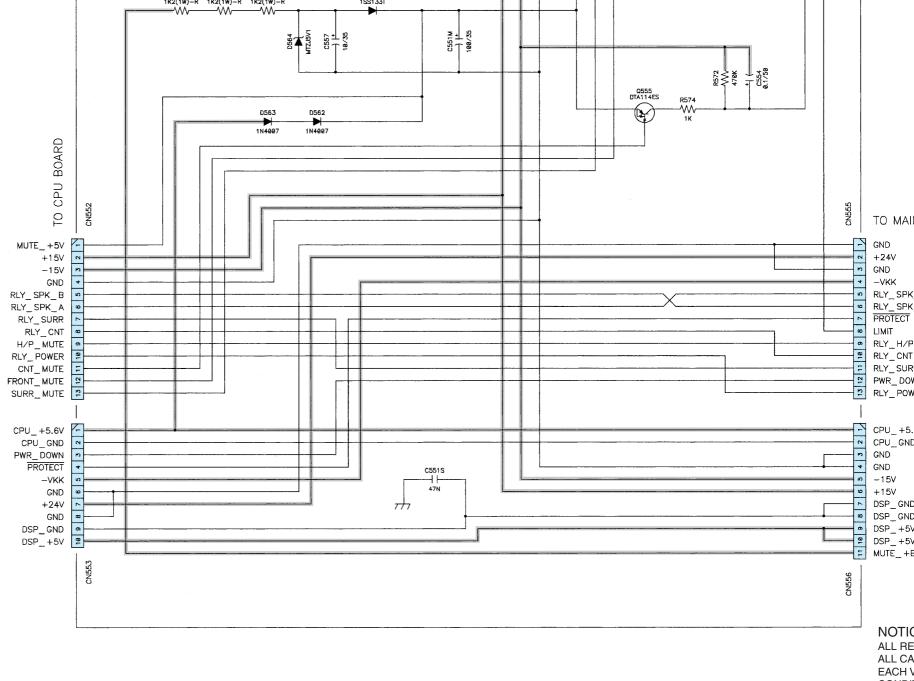
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

SCHEMATIC DIAGRAMS (2/8) DSP UNIT



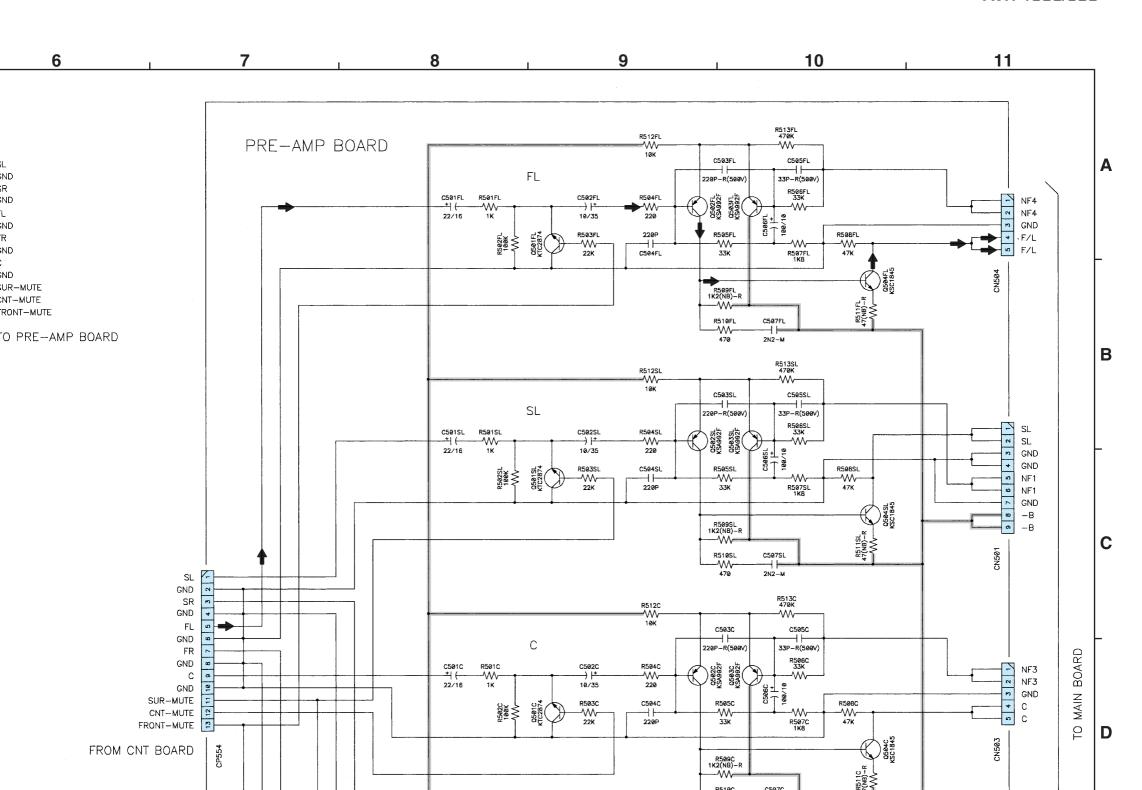


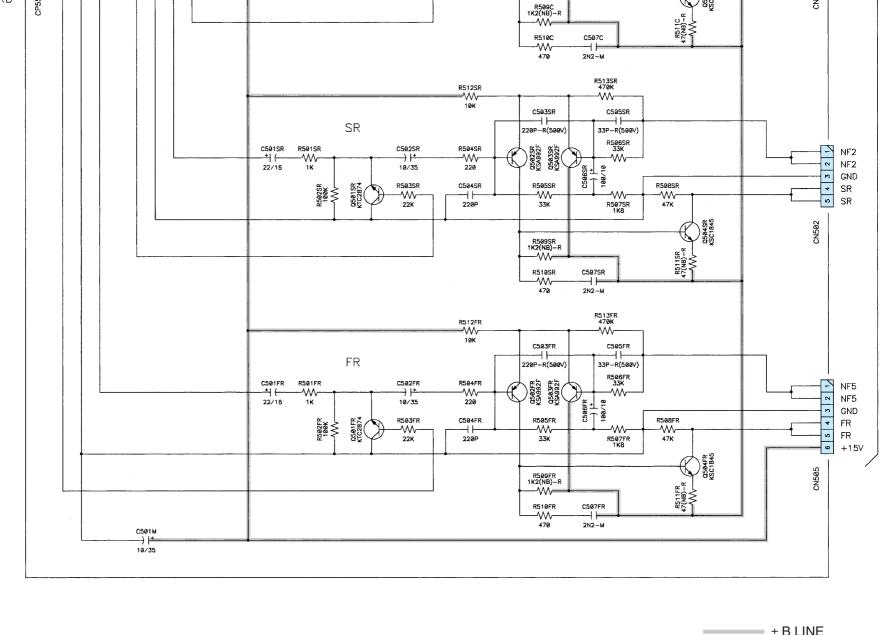




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#### NOTICE:

O MAIN BOARD

-24V

SND

-VKK

RLY_SPK_A RLY_SPK_B

ROTECT

RLY_H/P

RLY_CNT

RLY_SURR PWR_DOWN

RLY_POWER

PU +5.6V

PU_GND

DNS

-15V

+15V DSP_GND

SP_GND

)SP_+5V

SP_+5V

NUTE_ +B

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

#### WARNING:

Parts marked with this symbol  $\triangle$  have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

#### CAUTION:

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#### WARNING:

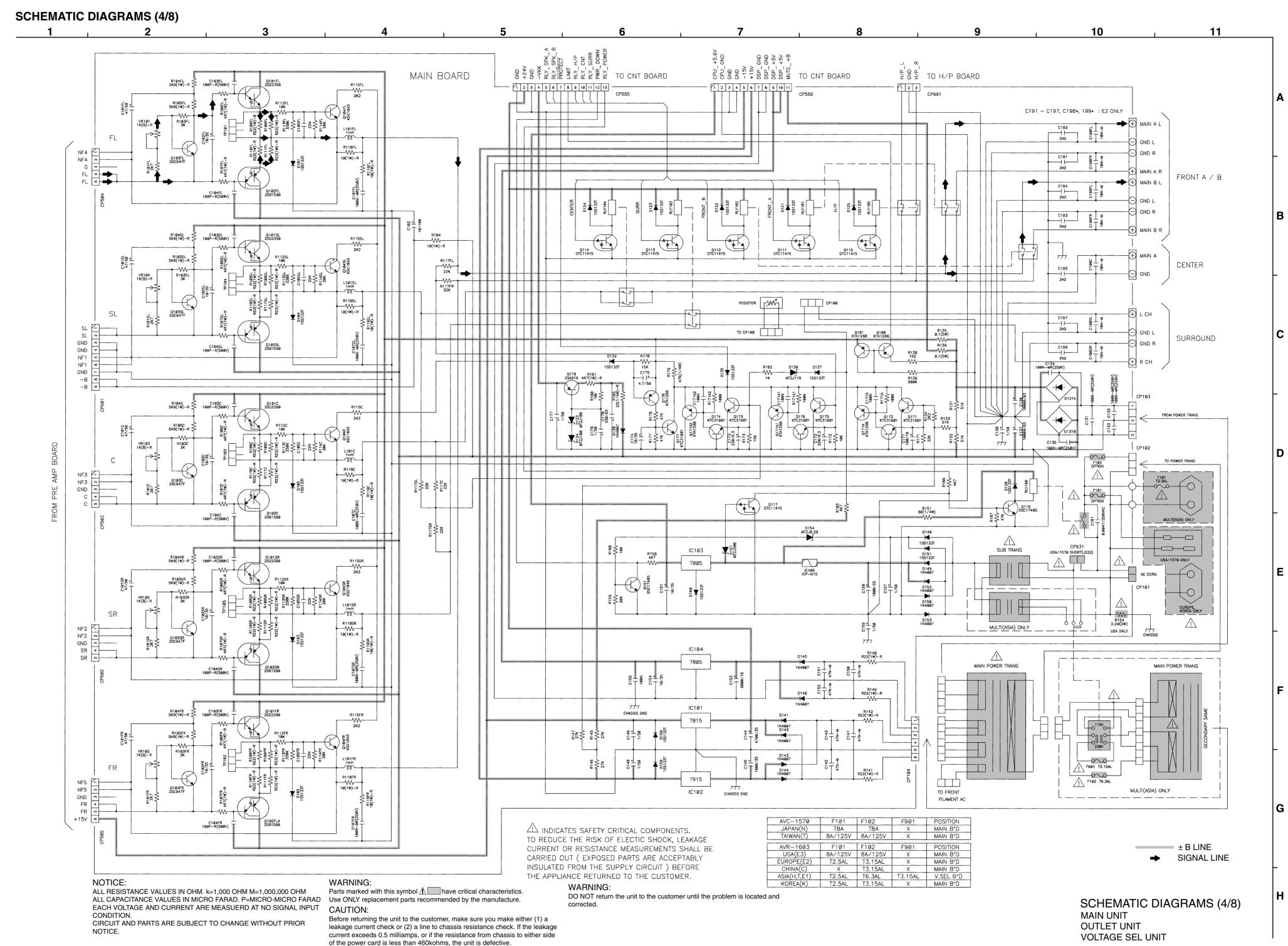
DO NOT return the unit to the customer until the problem is located and corrected.

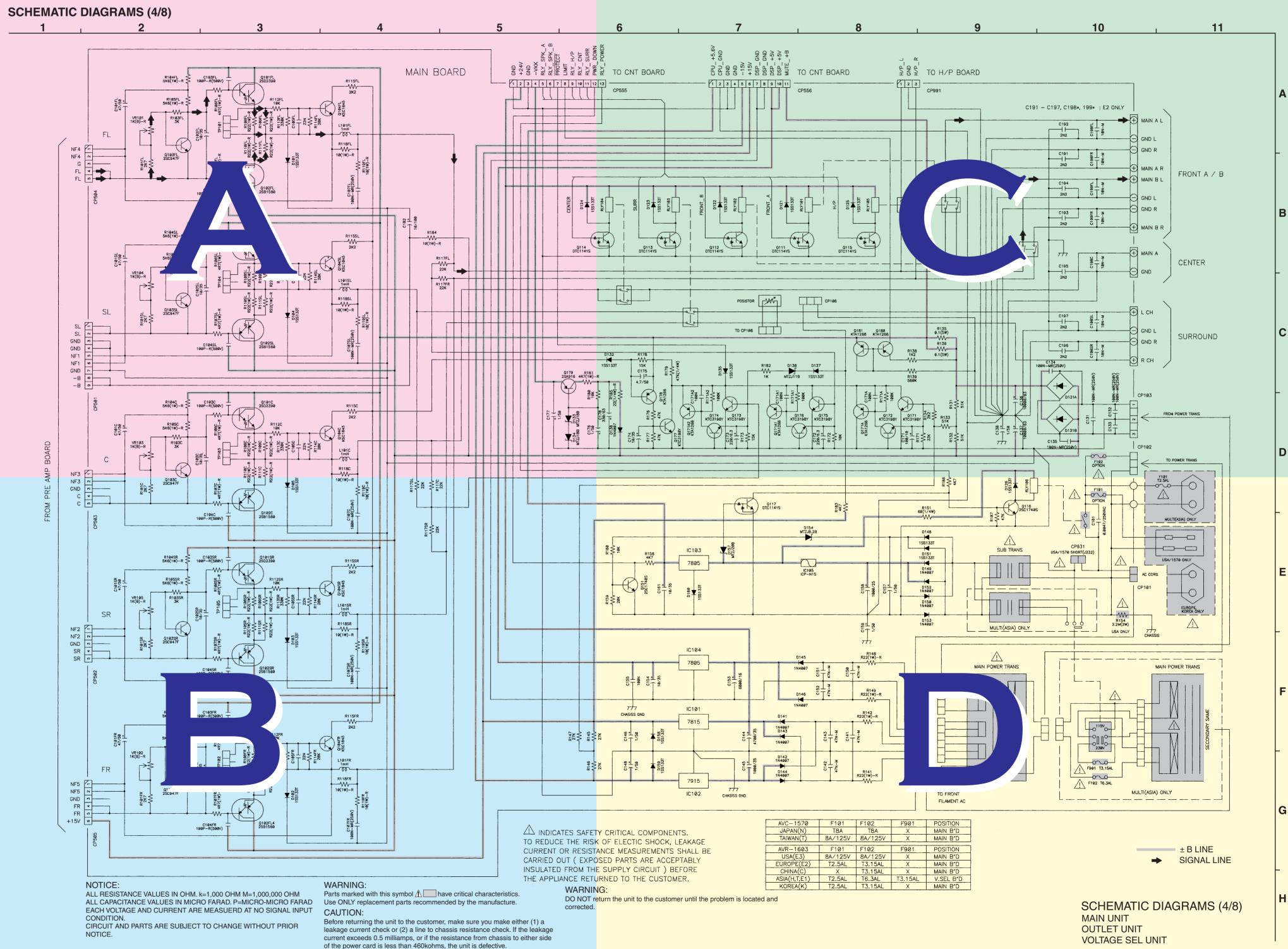
± B LINE

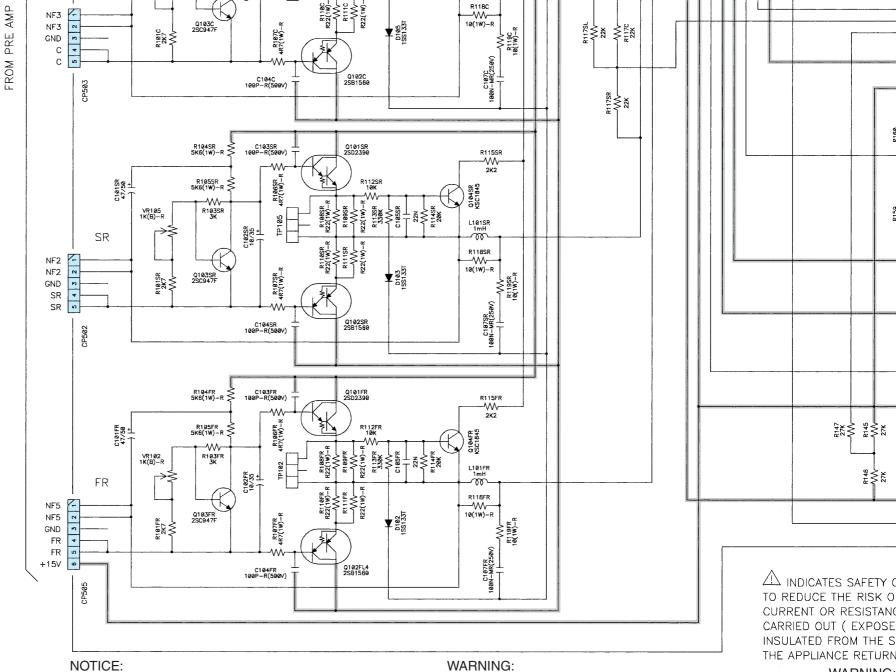
→ SIGNAL LINE

SCHEMATIC DIAGRAMS (3/8) CNT UNIT PRE-AMP UNIT G

Н







ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION.

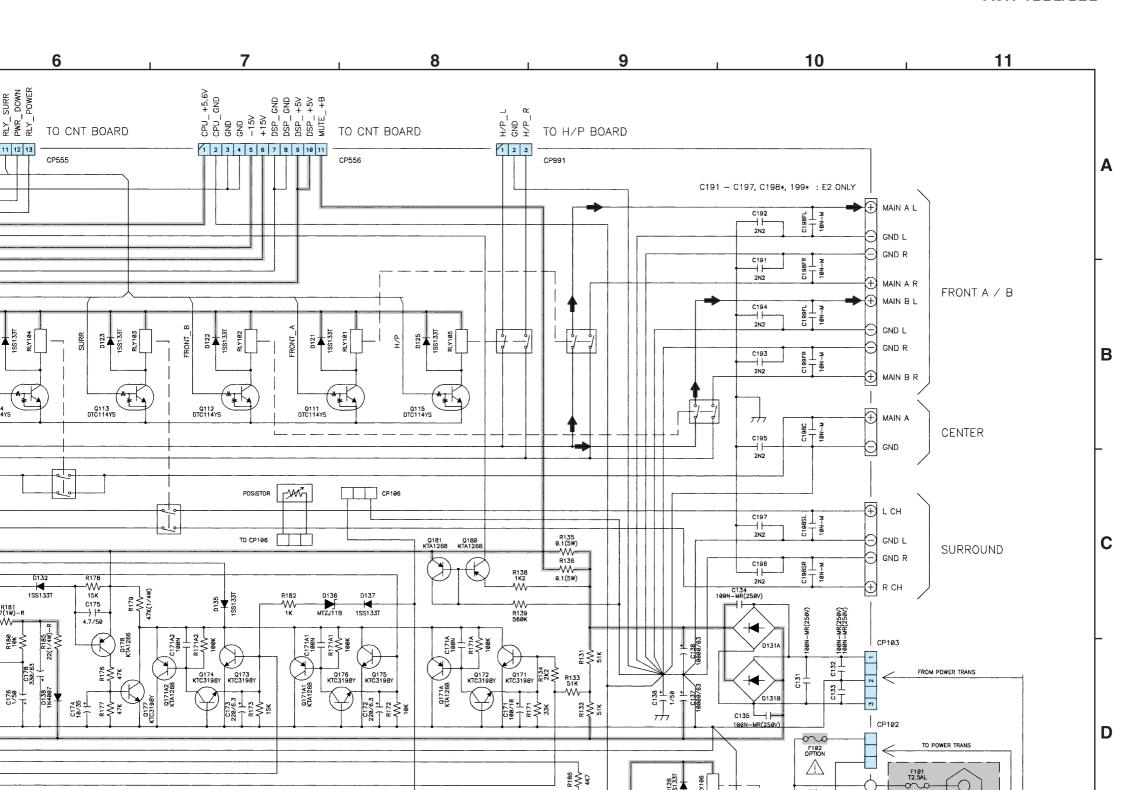
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

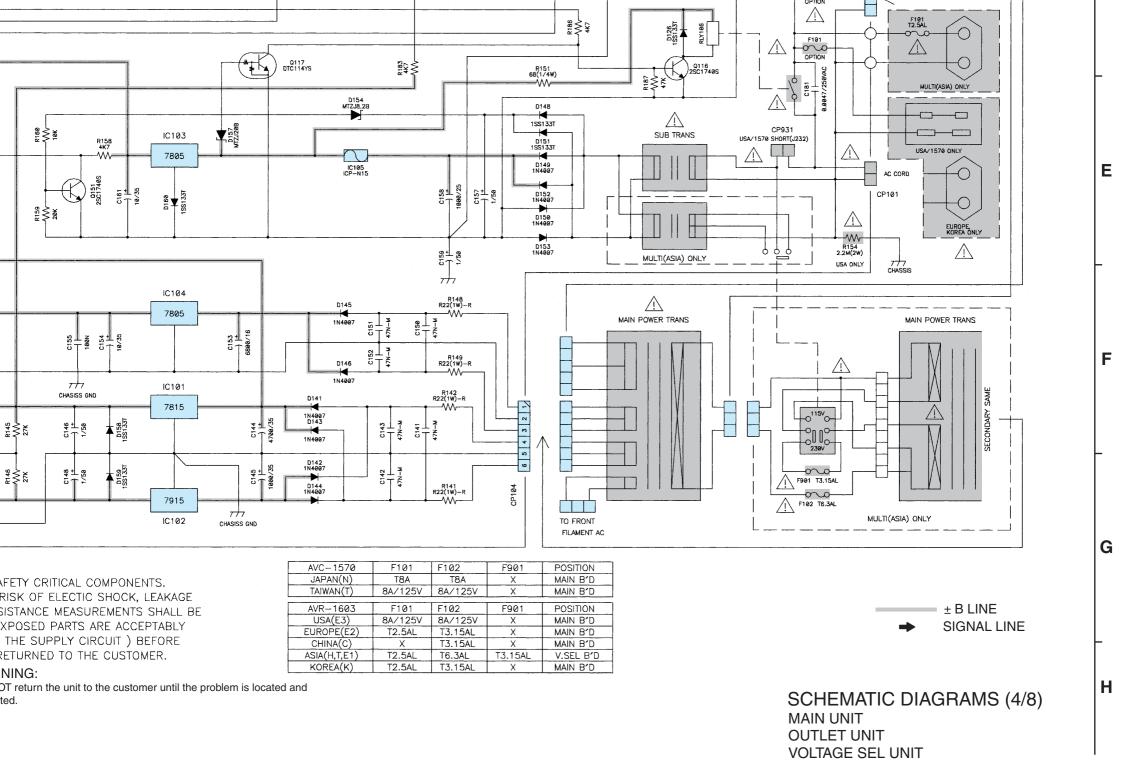
Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

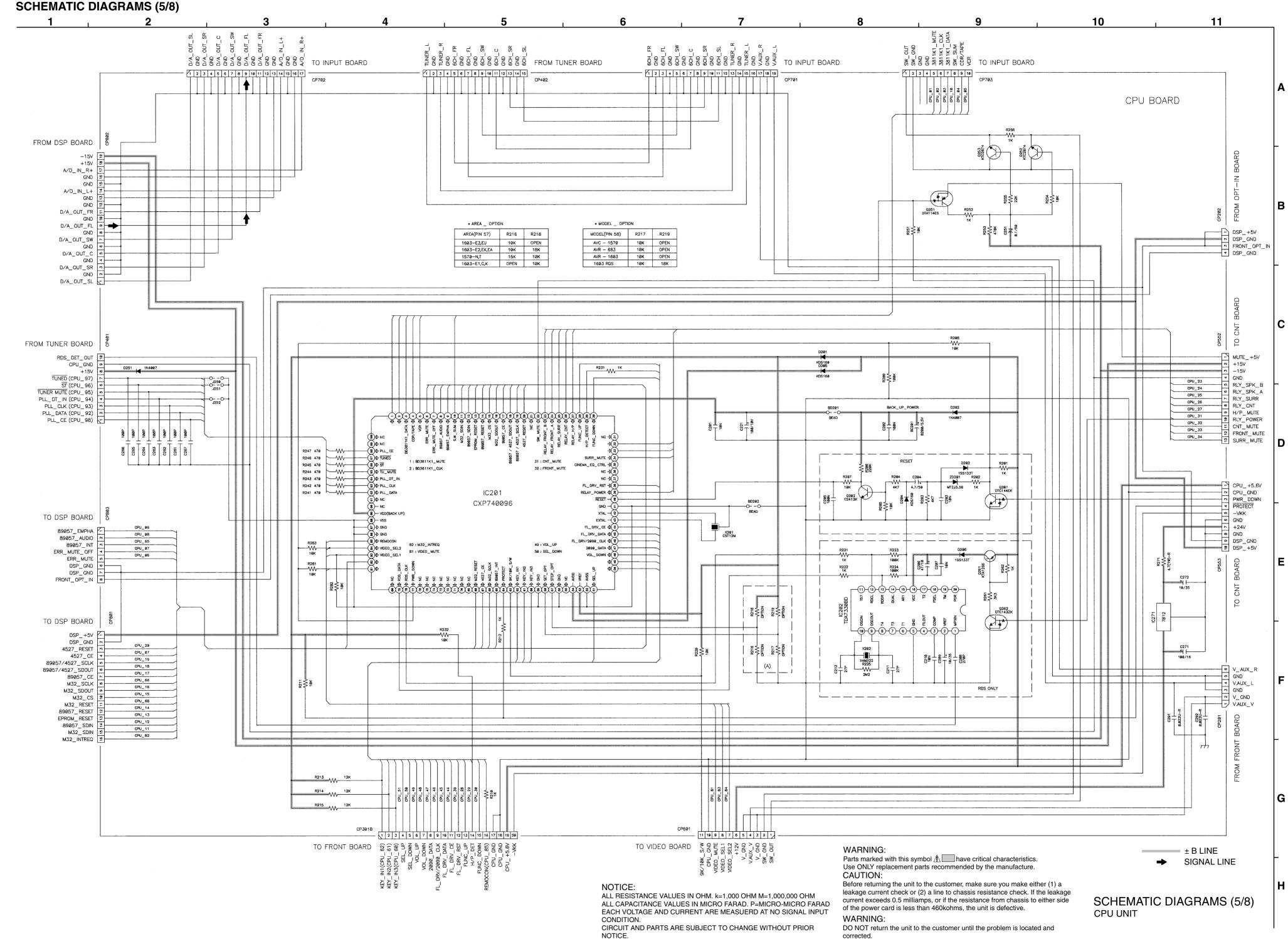
### CAUTION:

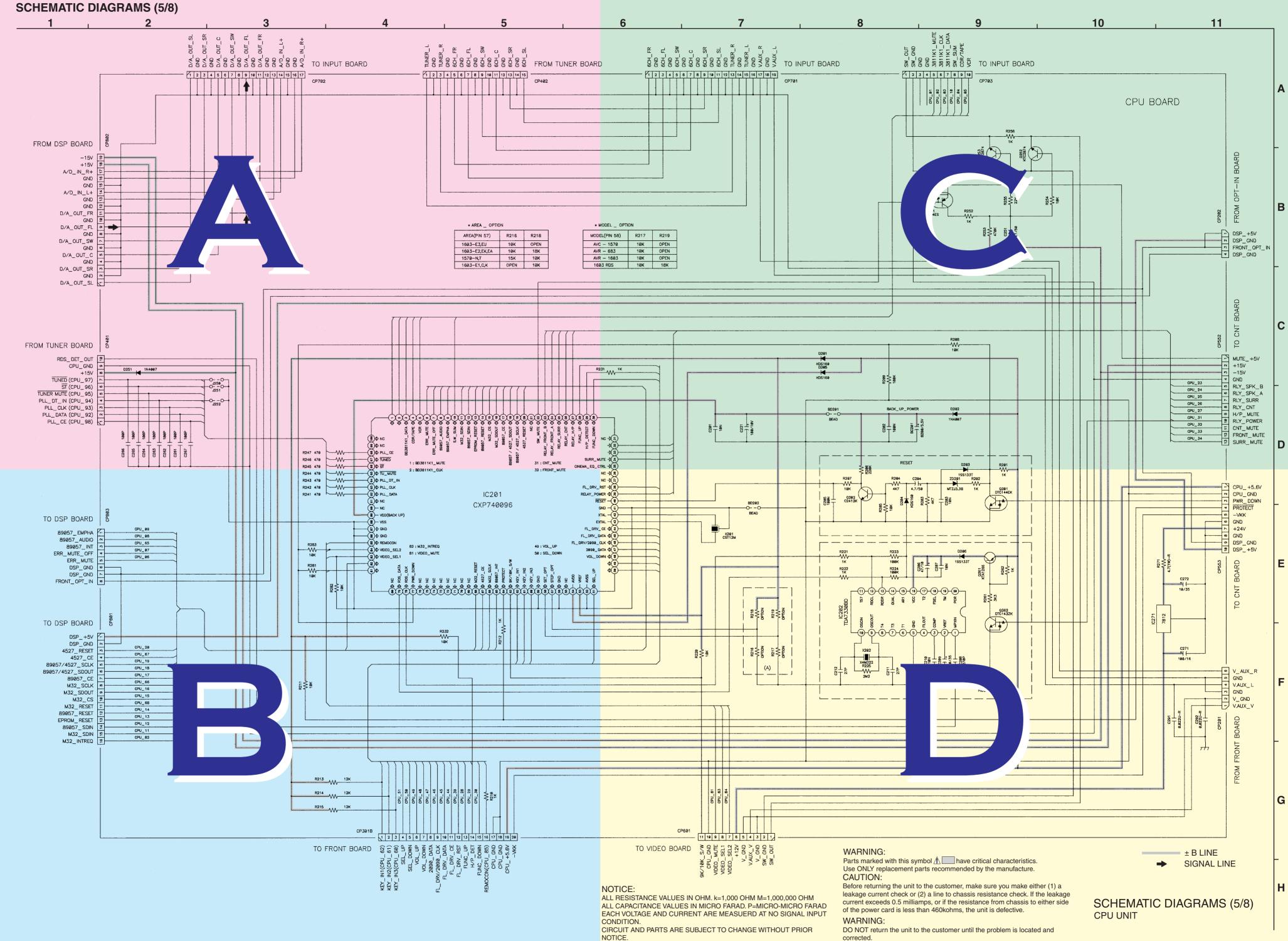
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WARNING: DO NOT retur corrected.

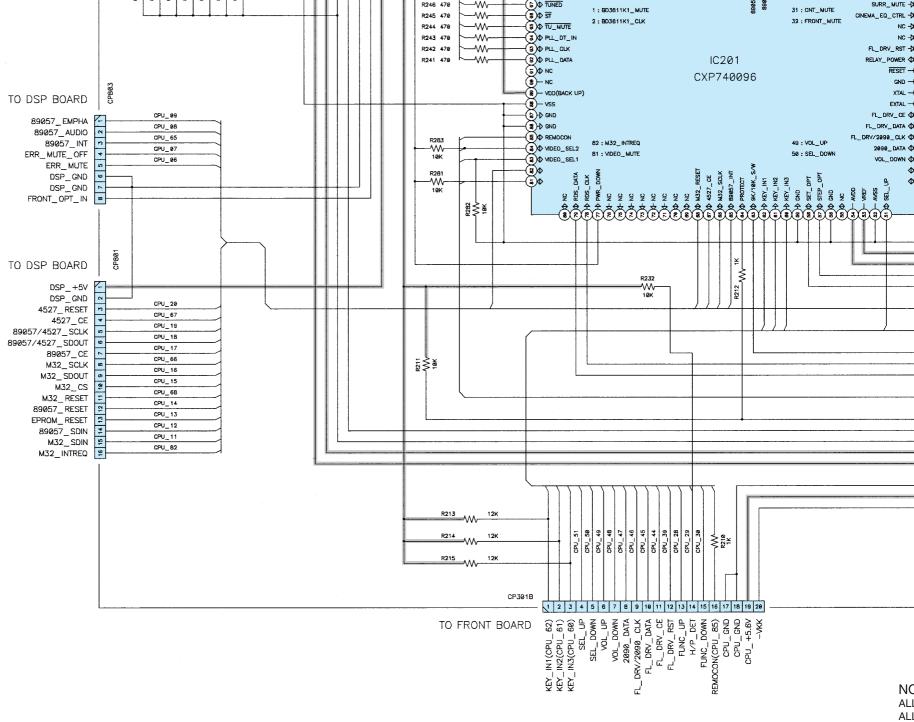




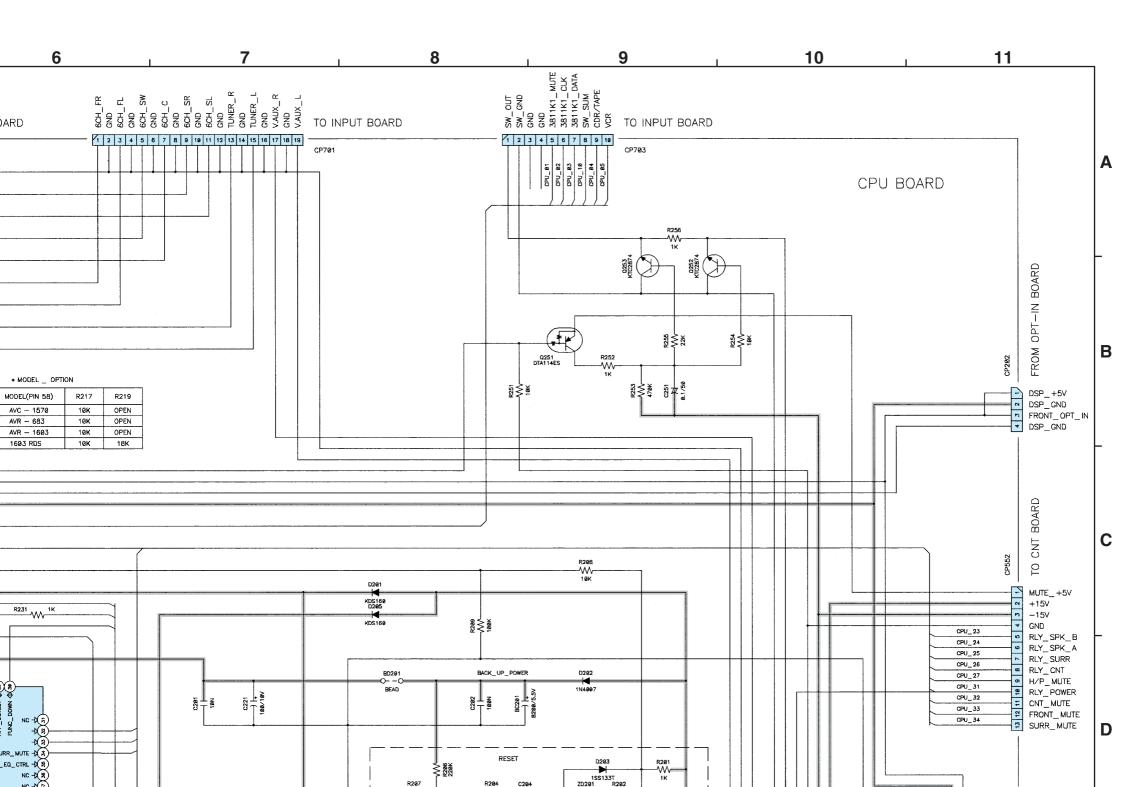


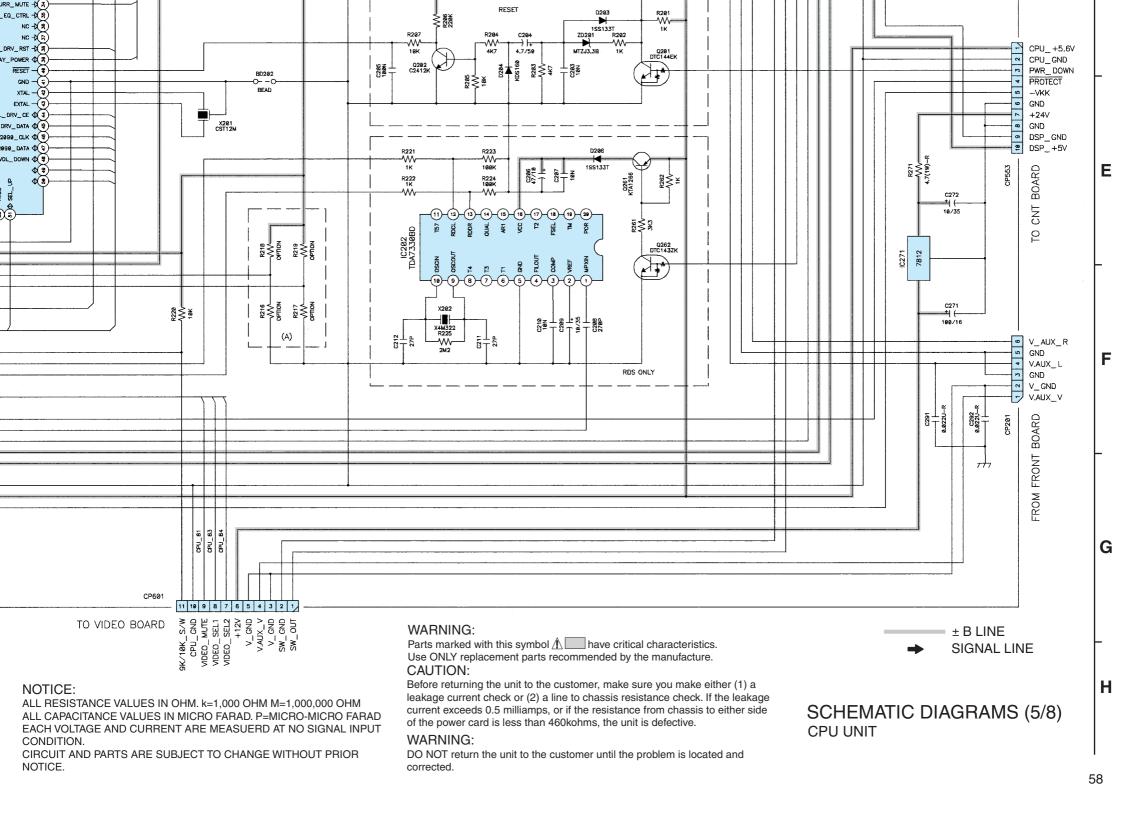


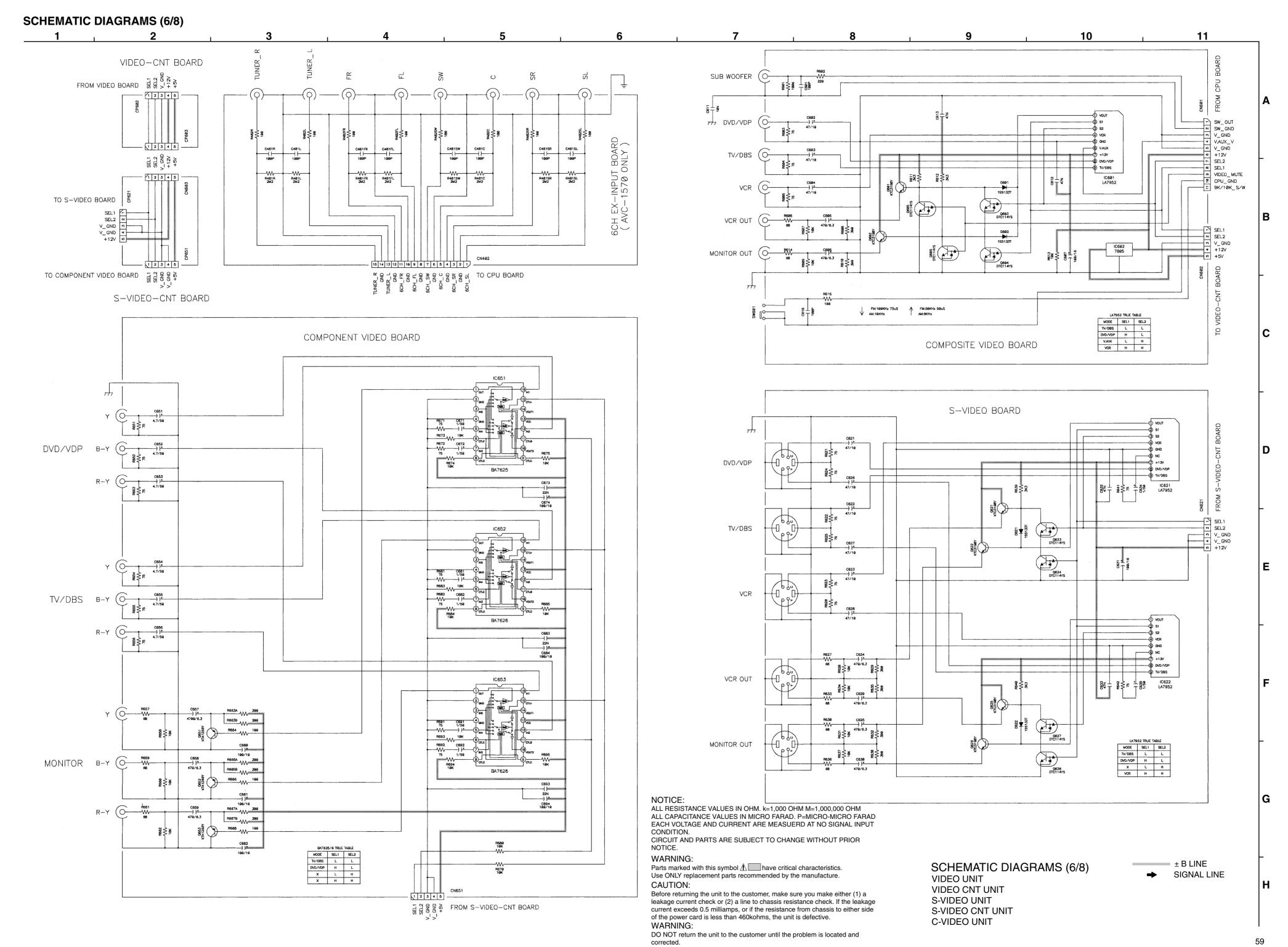
#### **SCHEMATIC DIAGRAMS (5/8)** 5 OUT_FR . TWO OUT_ 7100 7770 TO INPUT BOARD FROM TUNER BOARD CP702 CP402 FROM DSP BOARD -15V +15V A/D_IN_R+ GND GND A/D_IN_L+ GND GND D/A_OUT_FR GND * AREA _ OPTION * MODEI D/A_OUT_FL GND AREA(PIN 57) R216 R218 MODEL(PIN D/A_OUT_SW AVC - 1 1603-E3,EU 10K OPEN GND 1603-E2,EK,EA 10K 18K AVR - 6 D/A_OUT_C 1570-N,T 15K 10K GND 1603-E1,C,K OPEN 10K 1603 RD D/A_OUT_SR GND D/A_OUT_SL 🔽 FROM TUNER BOARD RDS_DET_OUT CPU_GND D251 1N4007 +15V TUNED (CPU_97) -O- -O-J250 -O- -O-J251 ST (CPU_96) TUNER MUTE (CPU_95) PLL_DT_IN (CPU_94) PLL_CLK (CPU_93) PLL_DATA (CPU_92) PLL_CE (CPU_98) 188P 188P 198P ® № NC S A NC C286 C284 C281 C281 C281 # DPLL_CE - 6 D TUNED - 8 D ST - 8 D TU_MUTE R247 470 **-**W/-R246 470 1 : BD3811K1_MUTE 31 : CNT_MUTE CINEMA_EQ_CTRL -R245 470 --₩-2 : BD3811K1_CLK 32 : FRONT_MUTE R244 470 ---

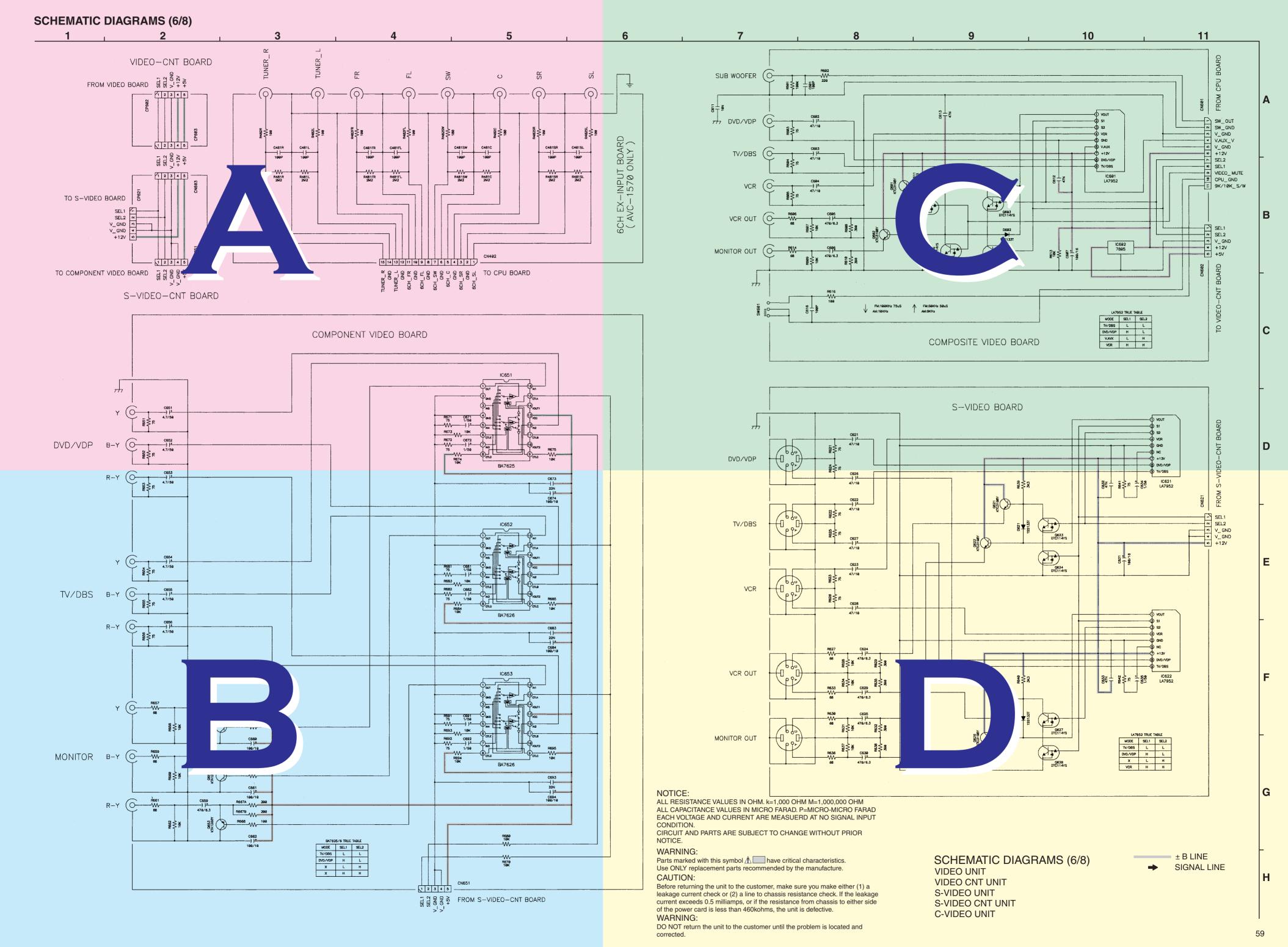


ALI EA CO CIF NO



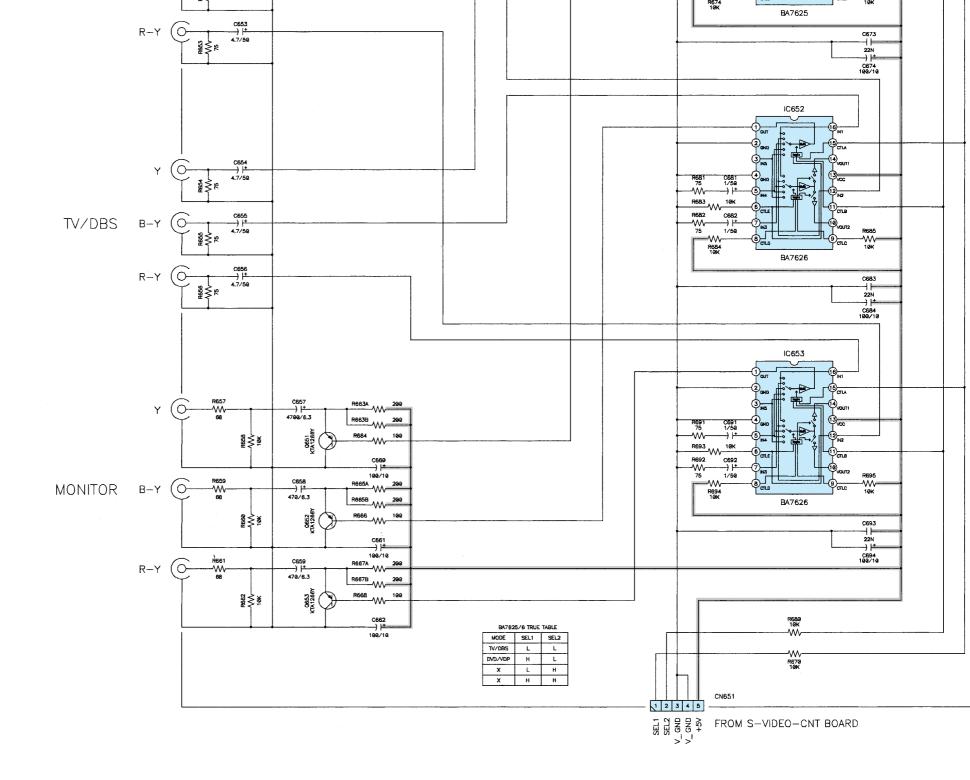


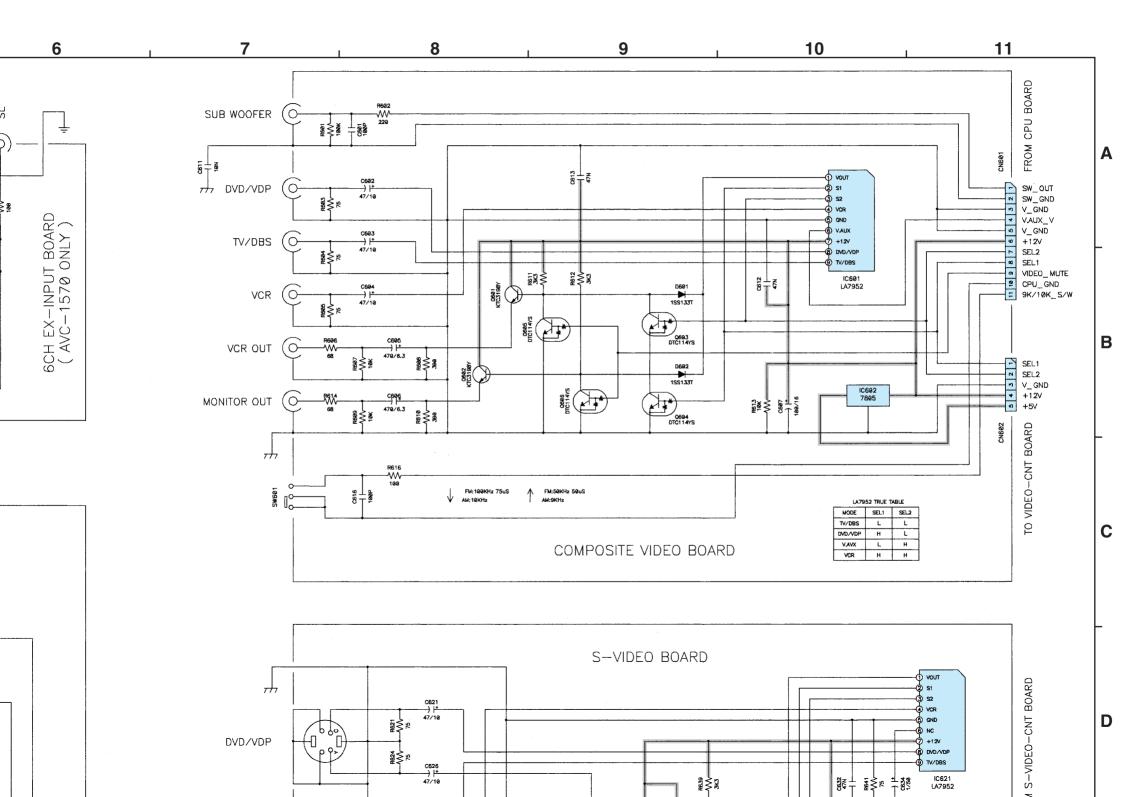


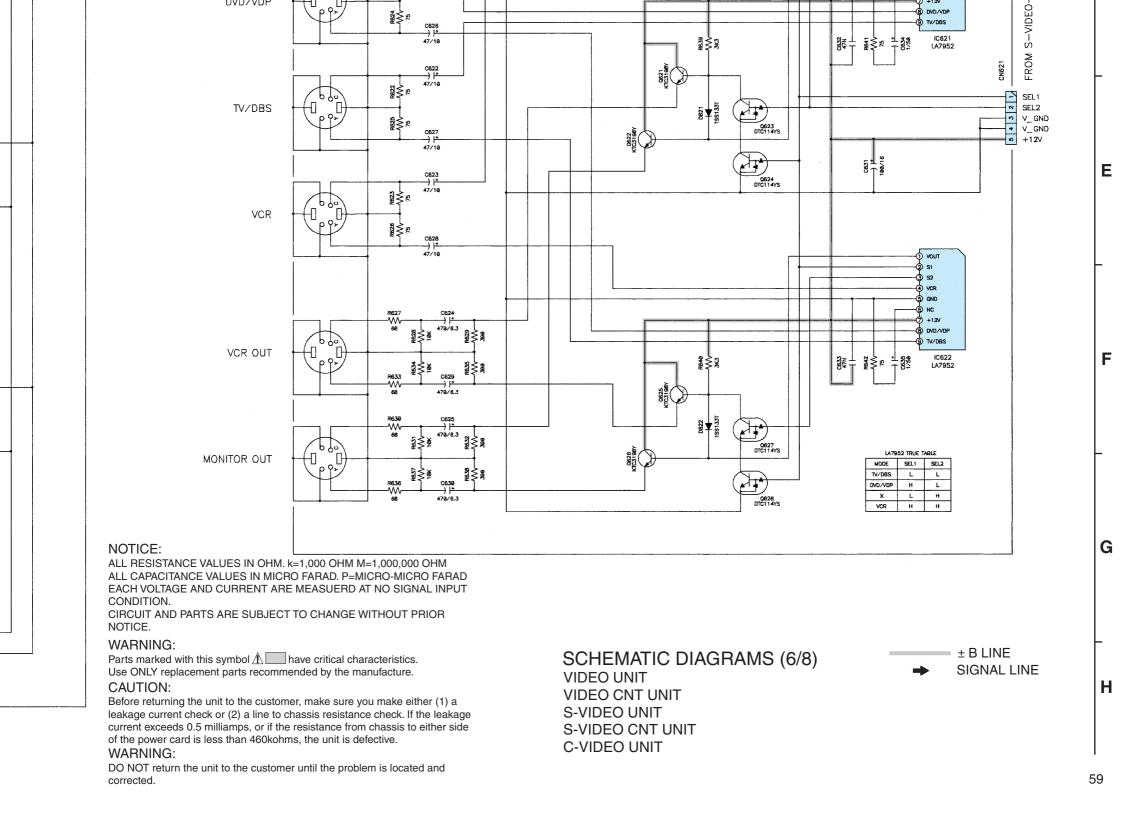


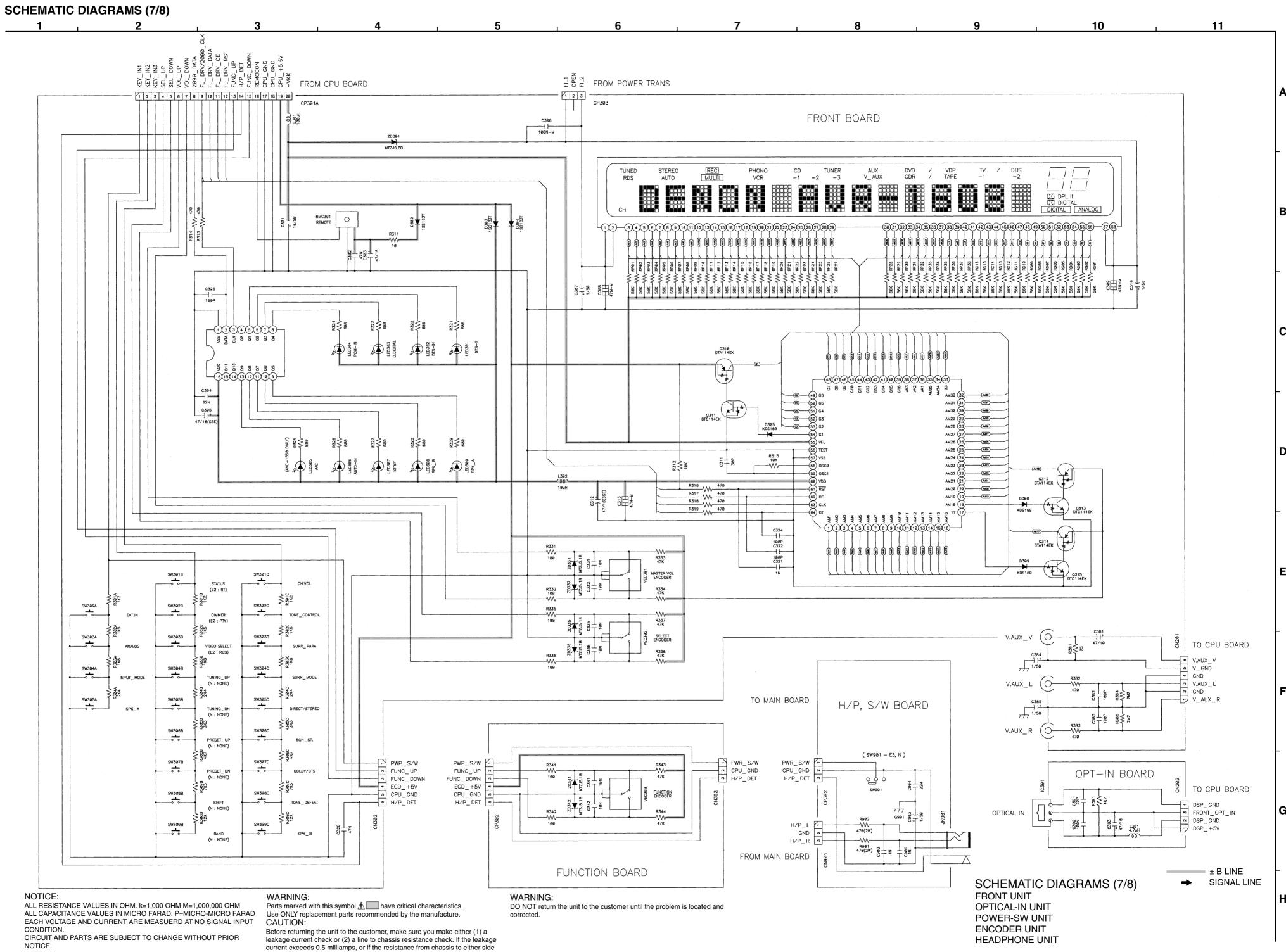
## **SCHEMATIC DIAGRAMS (6/8)** 3 TUNER_ L TUNER_R VIDEO-CNT BOARD FR 딮 SR FROM VIDEO BOARD S₩ SF $\circ$ 1 2 3 4 5 R482SR -VW-100 R482SW -\\\\ 168 28. ≥ 8. ≥ 8. 3482L √82L 3482Fi 828 № № № C481SL C481R C4R1i C481SW C481SR SEL1 SEL2 V_GND +12V +5V --\\\\-R481L 2N2 --\/\/-R481SR 2M2 R481FL 2M2 R481C 2M2 TO S-VIDEO BOARD SEL1 SEL2 V_GND V_GND +12V 🔊 CN402 TO COMPONENT VIDEO BOARD 28 8 8 5 5 TO CPU BOARD S-VIDEO-CNT BOARD COMPONENT VIDEO BOARD 4.7/50 DVD/VDP BA7625

C673

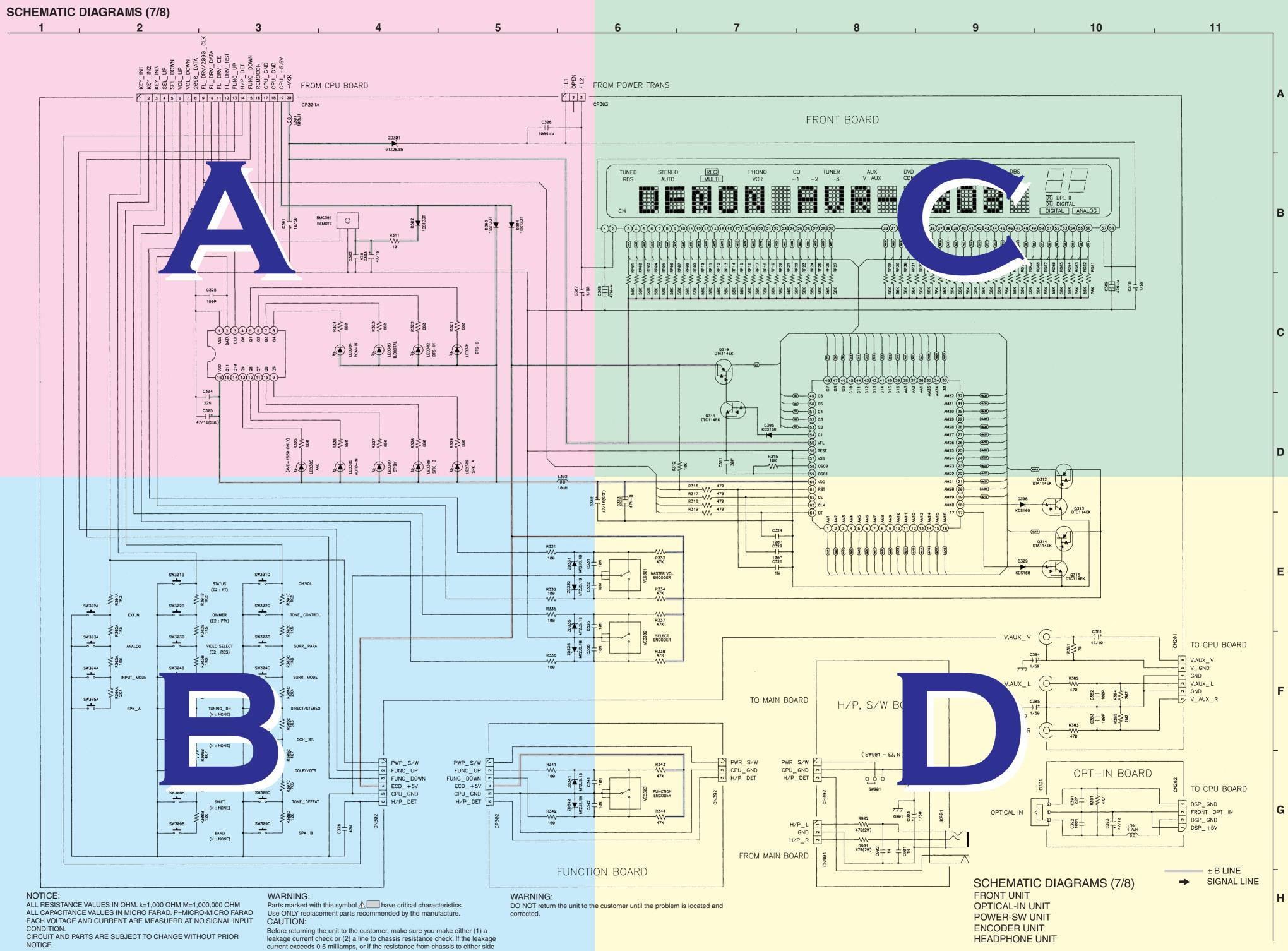






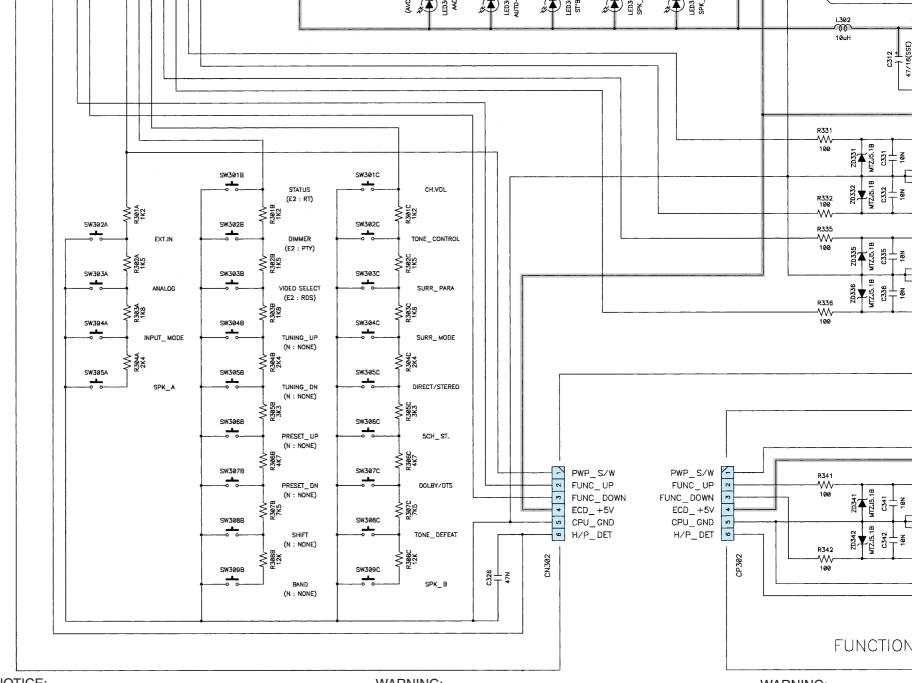


of the power card is less than 460kohms, the unit is defective.



of the power card is less than 460kohms, the unit is defective.

# **SCHEMATIC DIAGRAMS (7/8)** 3 5 FRC FROM CPU BOARD 1 2 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 CP30 3 18 100N-M ZD3Ø1 R314 WW 470 RMC301 REMOTE C325 100P R324 ₩7 680 R323 ₩ 680 LED303 D.DIGITAL LED364 PCM-IN LED302 DTS-IN \$ \frac{1}{5} \frac{1}{5} \frac{1}{3} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1}{4} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1}{5} \frac{1}{4} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{3} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{3} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{3} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{3} \frac{1}{2} \frac{1}{10} \frac{1}{9} - \frac{1}{5} \frac{1 C304 22N (AVC-155@ DNLY) R325 R325 WW LED305 AAC LED3@6 SPK_B LED 367



### NOTICE:

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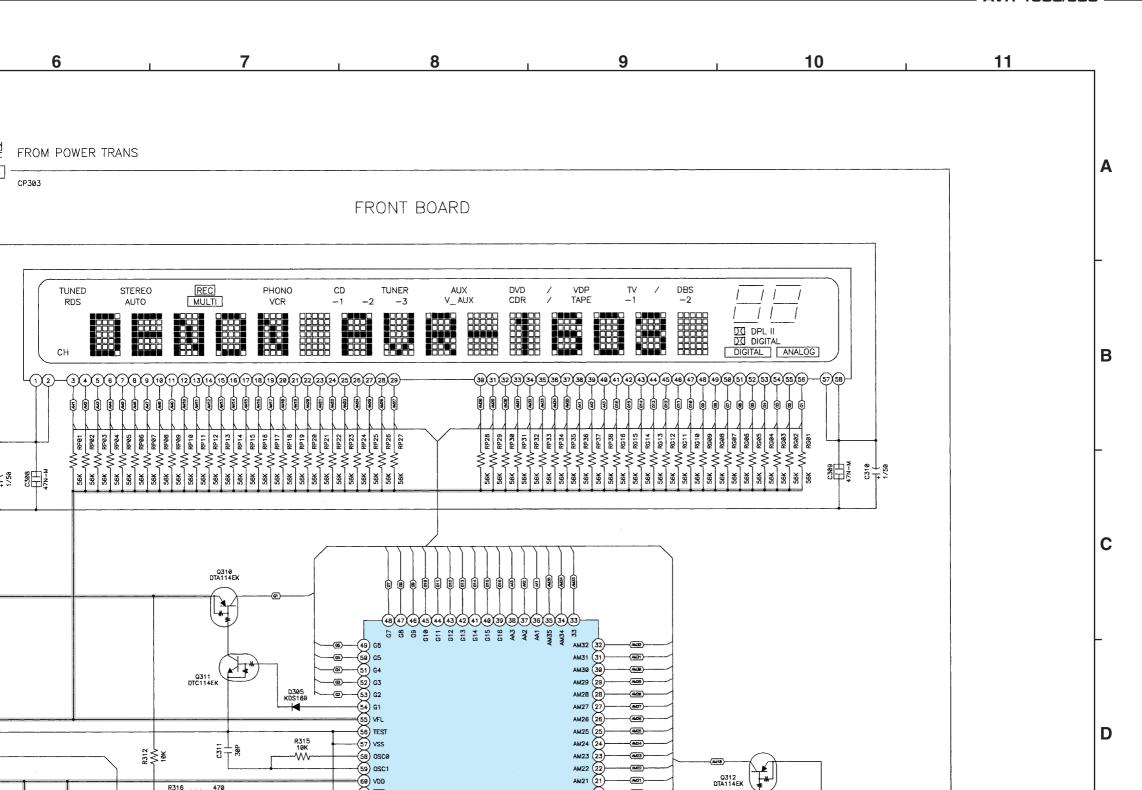
#### WARNING:

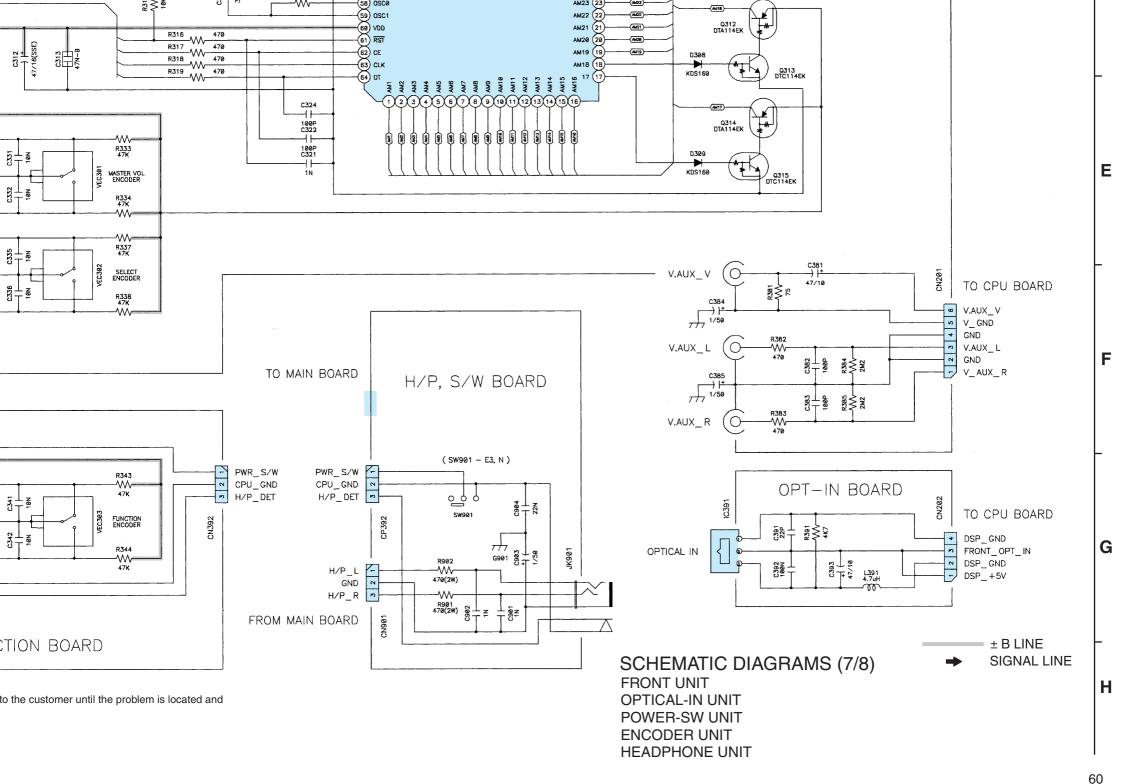
Parts marked with this symbol  $\Lambda$  have critical characteristics. Use ONLY replacement parts recommended by the manufacture. CAUTION:

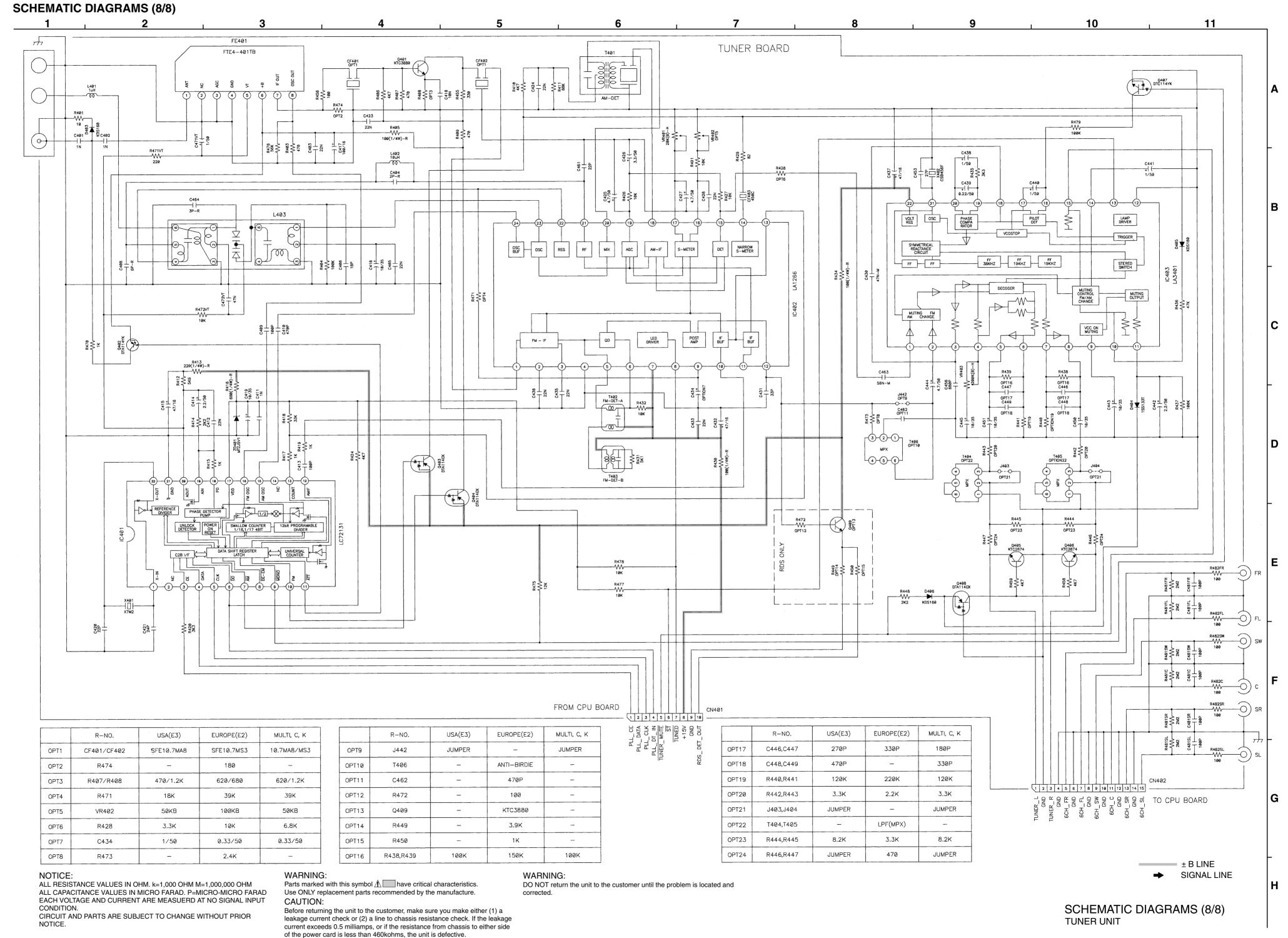
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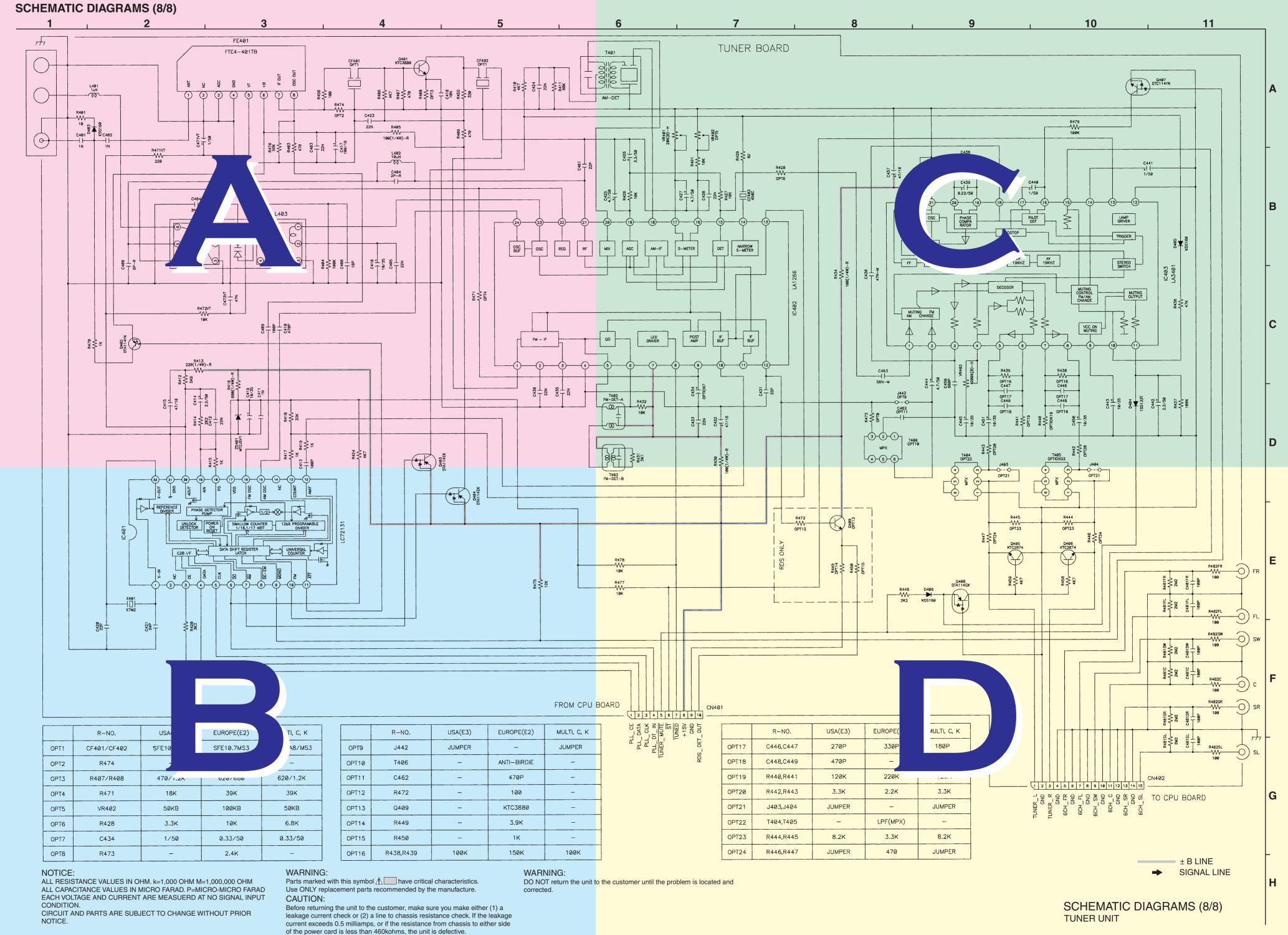
#### WARNING:

DO NOT return the unit to the cu corrected.

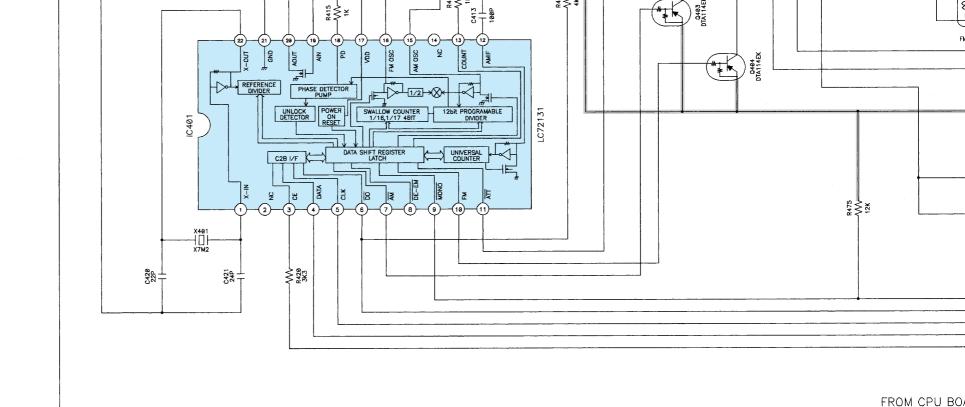








## **SCHEMATIC DIAGRAMS (8/8)** 2 3 4 5 7 FE401 FTE4-401TB agaa OSC OUT AGC GND (5) R456 √ 188 (6) C423 8469 478 189 ´ --| |-1N 8476 56K 400 470 470 22N R471VT ---\/\/--220 L402 10uH --------C404 2P-R L403 -3 HO-OSC BUF REG OSC R471 M471 OPT4 100P 100P 100P 170P 170P FM - IF 8478 ∓ X+ R413 220(1/4W)-R %412 X SK6 C419 16/35 18/35 1N \$\frac{1}{4}\$ \frac{2}{4}\$ \fra 848 33K 22 \ 22 \ 22 \ 22 \ 22 \ 22 \ 32 \ 4 ZD401 MTZJ5V1 8424 ¥ **¥ ¥** 24 ₹ *



	R-NO.	USA(E3)	EUROPE(E2)	MULTI, C, K	
OPT1	CF401/CF402	SFE10.7MA8	SFE10.7MS3	10.7MA8/MS3	
OPT2	R474	_	180		
ОРТ3	R407/R408	470/1.2K	620/680	620/1.2K	
OPT4	R471	18K	39K	39K	
OPT5	VR402	50KB	100KB	50KB	
OPT6	R428	3.3K	10K	6.8K	
OPT7	C434	1/50	0.33/50	0.33/50	
орт8	R473	_	2.4K	_	

	R-NO.	USA(E3)	EUROPE(E2)	MULTI, C, K
ОРТ9	J442	JUMPER	_	JUMPER
OPT10	T406	_	ANTI-BIRDIE	-
OPT11	C462	_	470P	-
OPT12	R472	_	100	-
OPT13	Q409	_	KTC3880	
OPT14	R449		3.9K	
OPT15	R450	_	1K	_
OPT16	R438,R439	100K	150K	100K

### NOTICE:

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#### WARNING:

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## CAUTION:

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### WARNING:

DO NOT return the unit to the corrected.

